AHS 1101 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1102;
Instructor: Simpson, Scott W
Description: This one credit course is designed for students interested in exploring the many career paths available in health care. Students will have the opportunity to reflect on their own values, skills and interests. You will also hear first-hand from an extensive line-up of guest speakers and learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.

AHS 1102 Orientation to Health Careers
OPT No Aud, 1 credit(s); Credit will not be granted if credit has been received for: AHS 1101;
Instructor: Kachgal, Mera M
Description: This Web-based, one credit course is for undergraduate students who are exploring health majors and professions. Students will have the opportunity to reflect on their own values, skills and interests. You will learn more about the academic and experiential requirements for health professional schools at the University. Activities will include interest inventories, discussion, journaling, developing an action plan, and other reflective assignments. This course will help you decide if a career in the health professions is a good fit for you.
Style: 100% Web Based.
Grading: 33% quizzes, 33% reflection paper, 33% other evaluation.
Exam Format: multiple choice, matching, true/false, and short answer

AHS 1600 The Future Physician I: Medicine in the 21st Century
A-F only, 1 credit(s);
Instructor: Todd, Tricia
Description: Learn about the multi-disciplinary field of medicine and the challenges shaping the work of health professionals in the healthcare field. Explore the history of medicine and health as well as grow in an understanding of global health issues and global healthcare systems. Explore the relationships and roles of physicians, their team members and the patient and learn about the commitment needed to become a physician. This course is taught collaboratively by Dr. Shailey Prasad, MD, MPH, Assistant Professor, University of Minnesota, Department of Family Medicine and Community Health; Investigator, Rural Health Research Center, University of Minnesota; Medical Director, Broadway Family Medicine, and Tricia Todd, MPH, Assistant Director of the Health Careers Center, University of Minnesota.

AHS 1602 The Future Physician III: Experiences in Health
2 credit(s);
Instructor: Todd, Tricia
Description: Registration for this course requires instructor approval and a permission number. Requests to Tricia Todd, MPH, course instructor, at todd0002@umn.edu. An essential component of your application to medical school is experience in a health care setting. This course requires you to complete 35 hours of volunteer experience in a setting that employs physicians and serves patients. In addition, you will complete a medical school application plan and gain additional insight into your own fit with the field of medicine. Offered: Fall, spring, summer semesters; Offered online
Prerequisites: AHS 1601 and instructor approval To Register/Permission Numbers:

AHS 2300 Orientation to Clinical Research
A-F only, 1 credit(s);
Instructor: Kachgal, Mera M
Description: Student may contact the instructor or department for information.

AHS 2400 Writing a Personal Statement
S-N only, 1 credit(s);
Description: Develop a competitive personal statement. Designed for students in health program in coming year. As students engage in self-assessment, writing assignments, online discussions and peer reviews they will develop the skills needed to communicate effectively in a variety of health profession settings.

AHS 2707H Global Health Challenges for Future Health Professionals
A-F only, 2 credit(s), max credits 8, 4 completions allowed;
Instructor: Todd, Tricia
Description: Student may contact the instructor or department for information.

AHS 4300 Directed Study
1-3 credit(s), max credits 6;
Instructor: Todd, Tricia
Description: Student may contact the instructor or department for information.

Accounting 3-122 Carlson School of Management

Acct 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: LaFave, Steven John
Description: Student may contact the instructor or department for information.

Acct 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: Biondich, Nick E
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. You work independently, not as part of a student group. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. In this course, you will learn: --the nature of financial transactions; --the Generally Accepted Accounting Principles (GAAP) that businesses and nonprofit organizations in the U.S. must follow in reporting these transactions; --the vocabulary of financial accounting, sometimes described as the language of business; and --the representations made by financial statements. As you learn the fundamentals of accounting, you will gradually discern many areas that will affect you throughout your life. Whenever your corporate employer describes its financial goals, whenever you observe the stock market reacting to a corporation's earnings, whenever you learn about how a financially troubled company is taking steps to increase its profitability, accounting information is involved. This course will help you increase your understanding of events that take place daily in the financial community.
   Style: Online with handwritten exams
   Grading: See attached syllabus
   Exam Format: Supervised, in-person (not online) exams

Acct 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: White, Paul Andrew
Description: Student may contact the instructor or department for information.

Acct 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: Ma, Yuanyuan
Description: Student may contact the instructor or department for information.

Acct 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: Fang, Vivian W
Description: Student may contact the instructor or department for information.

Acct 2050 Introduction to Financial Reporting
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;
Instructor: Nam, Jonathan S
Description: Student may contact the instructor or department for information.
Acct 2050 Introduction to Financial Reporting  
A-F only, 4 credit(s); Soph Credit will not be granted if credit has been received for: APEC 1251;  
Instructor: Ma, Paul  
Description: Student may contact the instructor or department for information.

Acct 2050H Honors: Introduction to Financial Reporting  
A-F only, 4 credit(s);  
Instructor: White, Paul Andrew  
Description: This course introduces the topic of financial accounting for U.S. organizations. The purpose of financial accounting is to provide information to owners of the firm and other interested parties to serve as the basis for making decisions about that firm. The student who successfully completes this class will be able to read and understand U.S. financial statements. This course is unusual in that it covers in one semester material that is more commonly covered in two semester courses or one and a half semester courses. The benefit to this is that the student can get a lot of education for the time and tuition dollar. Also, packing the introductory accounting into one semester frees up time and credit hours that can be used on elective courses. The cost to the student is obvious; this course moves quickly and you must be willing to put in extra time and effort in order to take advantage of this saving. The purpose of this class is to introduce accounting, which is both the language of business and its primary information system. The learning goal is that students be able to read and understand U.S. financial statements. By the end of the course, the student should be able to prepare basic financial statements including the cash flow statement and to read and interpret annual financial reports.  
Style: 50% Lecture, 20% Discussion, 30% Small Group Activities.  
Grading: 40% mid exam, 20% final exam, 8% special projects, 16% quizzes, 3% written homework, 13% class participation.

Acct 3001 Introduction to Management Accounting  
A-F only, 3 credit(s);  
Instructor: Caliendo, Charles Michael  
Description: Student may contact the instructor or department for information.

Acct 3001 Introduction to Management Accounting  
A-F only, 3 credit(s);  
Instructor: White, Paul Andrew  
Description: This course introduces the topic of management accounting. The purpose of management accounting is to provide information to management for costing products, as well as for planning, controlling, and evaluating business activities. The purpose of this class is to introduce managerial accounting, which directly relates to managerial decision-making. The course will introduce the design and use of costing systems with specific emphasis on activity based costing systems. The role of managerial accounting in operational and strategic decisions of business firms will also be emphasized.  
Style: 40% Lecture, 30% Small Group Activities, 30% Demonstration.  
Grading: 30% mid exam, 32% final exam, 25% quizzes, 13% class participation.

Acct 3001 Introduction to Management Accounting  
A-F only, 3 credit(s);  
Instructor: Batina, Tom  
Description: Student may contact the instructor or department for information.

Acct 3001 Introduction to Management Accounting  
A-F only, 3 credit(s);  
Instructor: Khan, Mozaffar  
Description: Student may contact the instructor or department for information.

Acct 3150 Role of the Accountant in Today's Finance Function  
S-N only, 1 credit(s);  
Instructor: Batina, Tom  
Description: Student may contact the instructor or department for information.

Acct 3199 Internship in Public Accounting  
S-N only, 2 credit(s);  
Instructor: Biondich, Nick E  
Description: Student may contact the instructor or department for information.
Acct 3201 Intermediate Management Accounting
   A-F only, 2 credit(s);  
   Instructor: White, Paul Andrew  
   Description: This course continues the topic of management accounting in greater depth. The purpose of management accounting is to provide information to management for costing products, as well as for planning, controlling, and evaluating business activities. The purpose of this class is to expand and build on the topics introduced in ACCT3001. The course will hone and refine the tools and techniques learned in introductory management accounting classes as well as improve your decision-making skills. We will also explore several topics not covered in the introductory class as well as consider how management accounting supports overall business strategy.  
   Style: 10% Lecture, 45% Discussion, 45% Student Presentation.  
   Grading: 33% final exam, 27% written homework, 20% in-class presentation, 20% class participation.

Acct 3299 Internship in Management Accounting  
   S-N only, 2 credit(s);  
   Instructor: Biondich, Nick E  
   Description: Student may contact the instructor or department for information.

Acct 5101 Intermediate Accounting I  
   A-F only, 4 credit(s);  
   Instructor: Tranter, Terry L  
   Description: The class will primarily utilize lectures and student questions to cover the material. Grades will be based on total points earned on three midquarters (100 points each), two written assignments which will be graded for writing style, punctuation, and grammar as well as content (40 points each), and a final (180 points). Exams are almost exclusively problem oriented and require free-hand computations (no multiple choice or true/false). Students will be expected to do substantial problem assignments outside class which are not formally graded, but are necessary to master the material. Students should expect to spend 8-12 hours outside of class each week.

Acct 5101 Intermediate Accounting I  
   A-F only, 4 credit(s);  
   Instructor: Biondich, Nick E  
   Description: Student may contact the instructor or department for information.

Acct 5101 Intermediate Accounting I  
   A-F only, 4 credit(s);  
   Instructor: Duke, Gordon Leon  
   Description: Student may contact the instructor or department for information.

Acct 5101 Intermediate Accounting I  
   A-F only, 4 credit(s);  
   Instructor: Zhang, Ivy Xiying  
   Description: Student may contact the instructor or department for information.

Acct 5102W Intermediate Accounting II  
   A-F only, 4 credit(s); Meets CLE req of Writing Intensive  
   Instructor: Tranter, Terry L  
   Description: Students in class are juniors, seniors, and master's students. While most students are accounting majors, the course is also valuable for students in finance. The class covers the valuation of liabilities and owners' equity accounts, as well as cashflow statements and earnings per share calculations. Students need a thorough background in financial accounting and present value calculations to do well in Acct 5102.  
   Style: 100% Lecture.  
   Grading: 47% mid exam, 25% final exam, 19% reports/papers, 9% other evaluation.  
   Exam Format: Open-ended questions 85+%; essays 10-15%; 4-6 questions per exam; exams are long and run the full class period.

Acct 5102W Intermediate Accounting II  
   A-F only, 4 credit(s); Meets CLE req of Writing Intensive  
   Instructor: Biondich, Nick E  
   Description: Student may contact the instructor or department for information.

Acct 5125 Auditing Principles and Procedures
A-F only, 4 credit(s);
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.

Acct 5125 Auditing Principles and Procedures
A-F only, 4 credit(s);
Instructor: Batina, Tom
Description: Student may contact the instructor or department for information.

Acct 5135 Fundamentals of Federal Income Tax
A-F only, 4 credit(s);
Instructor: Gutterman, Paul Gerard
Description: The course objectives are as follows: 1) to provide a historical perspective with respect to the system of income taxation in general and with respect to various specific provisions within the system; 2) to examine the interrelationships between legislative authority (the Internal Revenue Code), judicial and administrative authority; 3) to analyze the structure of the Internal Revenue Code and its provisions with respect to specific areas of the law, primarily with regard to the taxation of individuals; 4) to introduce the reading of case law and other tax authority; and 5) to provide a basic knowledge of tax research tools and techniques. The student will not be a tax expert on completion of the course, but will be familiar with fundamental income tax rules, primarily with respect to individuals, and how the federal tax system works. Although this course is a requirement for undergraduate accounting majors, only a minimal accounting understanding is required as a prerequisite and non-accounting majors are welcome.
Style: 60% Lecture, 15% Discussion. Problems
Grading: 53% mid exam, 30% final exam, 17% special projects.
Exam Format: multiple choice, short essay

Acct 5135 Fundamentals of Federal Income Tax
A-F only, 4 credit(s);
Instructor: Naples, Tammy
Description: Student may contact the instructor or department for information.

Acct 5160 Financial Statement Analysis
A-F only, 2 credit(s);
Instructor: Duke, Gordon Leon
Description: Student may contact the instructor or department for information.

Acct 5160 Financial Statement Analysis
A-F only, 2 credit(s);
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.

Acct 5236 Introduction to Taxation of Business
A-F only, 2 credit(s);
Instructor: Conlon, Roger John
Description: Student may contact the instructor or department for information.

Acct 5310 International Accounting
A-F only, 2 credit(s);
Instructor: Rayburn, Judy Ann
Description: Student may contact the instructor or department for information.

Acct 5420 MAcc directed study
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Kallio, Larry Rodger
Description: Student may contact the instructor or department for information.

Acct 6100 Financial Statement Analysis
A-F only, 4 credit(s);
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.
Acct 6160 Accounting for Mergers and Acquisitions, and Derivatives
A-F only, 2 credit(s);
Instructor: Beil, Frank J
Description: Student may contact the instructor or department for information.

Acct 8001 Internal Control
A-F only, 4 credit(s);
Instructor: Kallio, Larry Rodger
Description: Student may contact the instructor or department for information.

Acct 8002 Securities and Exchange Commission (SEC) and Standard Setting
A-F only, 4 credit(s);
Instructor: Kallio, Larry Rodger
Description: Student may contact the instructor or department for information.

Acct 8800 Empirical Research: Topics
2 credit(s), max credits 4;
Instructor: Khan, Mozaffar
Description: Student may contact the instructor or department for information.

Acct 8811 Information Economics I
4 credit(s);
Instructor: Kanodia, Chandra S
Description: Student may contact the instructor or department for information.

Addiction Studies  Credit Certificate Prog/College of Continuing Edu

AddS 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Wawro, George
Description: Student may contact the instructor or department for information.

AddS 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Wamsley, Debra S
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Theoretical perspectives/concepts related to etiology of alcohol/drug dependency/abuse. Emphasizes bio-psycho-social models of addiction/disease: psychodynamics, social learning, contingency, family systems. Connection of theory to empirical research.
Style: Online
Grading: See attached syllabus

AddS 5011 Foundations in Addiction Studies
A-F only, 2 credit(s);
Instructor: Kibben, Roxanne
Description: Student may contact the instructor or department for information.

AddS 5021 Introduction to Evidence Based Practices and the Helping Relationship
A-F only, 3 credit(s);
Instructor: Boisen, Laura Sue

AddS 5021 Introduction to Evidence Based Practices and the Helping Relationship
A-F only, 3 credit(s);
Instructor: Wamsley, Debra S
Description: Initiating, conducting, and terminating a counseling relationship. Use of self in counseling process. Nature/process of helping. Evidence-based practices/theories. Reading, discussion, written exercises, role-play,
AddS 5031 Applied Psychopharmacology
A-F only, 2 credit(s);
Instructor: Frenz, David Arthur
Description: Categories of psychoactive drugs. Medicines to treat mental disorders. Substances such as alcohol, nicotine, cocaine, and marijuana. What occurs physiologically when someone takes a psychoactive drug.

AddS 5041 Methods and Models I: Motivational Counseling
A-F only, 2 credit(s);
Instructor: Van Cleve, Michael
Description: Concepts of Motivational Interviewing. Spirit of MI. Primary counseling skills. Working with resistance. Identifying/eliciting change talk. Transitioning into change, negotiating a treatment plan. Strengths/shortcoming of MI.

AddS 5041 Methods and Models I: Motivational Counseling
A-F only, 2 credit(s);
Instructor: Isenhart, Carl E
Description: Concepts of Motivational Interviewing. Spirit of MI. Primary counseling skills. Working with resistance. Identifying/eliciting change talk. Transitioning into change, negotiating a treatment plan. Strengths/shortcoming of MI.

AddS 5051 Methods and Models II: Cognitive Behavioral Therapy
A-F only, 2 credit(s);
Instructor: Van Cleve, Michael
Description: Components of cognitive model. Assessment, case formulation, automatic thoughts, core beliefs, cognitive restructuring, behavior change elements, therapeutic relationship. Students learn, practice and master key concepts.

AddS 5061 Foundations of Group Work
A-F only, 3 credit(s);
Instructor: Rohovit, Julie L
Description: Designing/facilitating therapy groups. Intra-/inter-personal dynamics, leadership skills, developmental aspects, ethical issues. Application to therapy of chemically addicted individuals. Lectures, discussion, experiential exercises, small groups, readings.

AddS 5071 Foundations of Co-occurring Disorders
A-F only, 2 credit(s);
Instructor: Becher-Ingwalson, Ann M
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. Understanding the mentally ill and chemically abusive or dependent client. Intervention, advocacy, education, and support for client and those that are part of his/her environment. Social, environmental, and multicultural factors that contribute resources for these clients.
Style: Online
Grading: See attached syllabus

AddS 5081 Multicultural Foundations of Behavioral Health
A-F only, 3 credit(s);
Instructor: Wamsley, Debra S
Description: What is culture? How might culture, cultural practices, and history be significant in the use/abuse of substances? How is culture relevant to the attitudes/practices in the prevention/treatment of substance use/abuse? Multicultural counseling and cultural competence in addiction counseling. People as individuals. Clinician's own cultural worldview/other cultural worldviews.

AddS 5091 Assessment and Treatment Planning I
A-F only, 3 credit(s);
Instructor: Van Cleve, Michael
Description: Core addictions counseling functions including clinical assessment, case management, documentation treatment planning, and ethical issues. Students begin process of securing internship.

AddS 5091 Assessment and Treatment Planning I
A-F only, 3 credit(s);
Instructor: Rohovit, Julie L
Description: Student may contact the instructor or department for information.

AddS 5091 Assessment and Treatment Planning I
A-F only, 3 credit(s);
Instructor: Wawro, George
Description: Core addictions counseling functions including clinical assessment, case management, documentation treatment planning, and ethical issues. Students begin process of securing internship.

AddS 5996 Internship in Substance Abuse Counseling
S-N only, 1-8 credit(s), max credits 8, 4 completions allowed;
Instructor: Rohovit, Julie L
Description: Supervised field work experience. Practical application of substance abuse counseling. Assessment, treatment planning, case management.

Aerospace Engineering and Mechanics 107 Akerman Hall

AEM 1905 Freshman Seminar: Aircraft and Spacecraft: Yes, This Is Rocket Science! High-Power Rocketry
OPT No Aud, 2 credit(s), max credits 4;
Instructor: Flaten, James Alfred
Description: Student may contact the instructor or department for information.

AEM 2011 Statics
A-F only, 3 credit(s);
Instructor: STAFF

AEM 2012 Dynamics
A-F only, 3 credit(s);
Instructor: STAFF

AEM 2021 Statics and Dynamics
A-F only, 4 credit(s);
Instructor: Ketema, Yohannes

AEM 3031 Deformable Body Mechanics
A-F only, 3 credit(s);
Instructor: van Lengerich, Henrik Bernhard
Description: Student may contact the instructor or department for information.

AEM 3100 Software Applications in AEM: Problem Solving with Python: An Introduction
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Mokhtarzadeh, Hamid
Description: Student may contact the instructor or department for information.

AEM 3101 Mathematical Modeling and Simulation in Aerospace Engineering
A-F only, 2 credit(s);
Instructor: Balas, Gary John
Description: Student may contact the instructor or department for information.

AEM 4000H Honors Research Seminar
S-N only, 0 credit(s);
Instructor: Shield, Thomas William
Description: Student may contact the instructor or department for information.

AEM 4201 Fluid Mechanics
A-F only, 4 credit(s);
Instructor: Nichols, Joseph W
Description: Student may contact the instructor or department for information.

AEM 4295 Problems in Fluid Mechanics
1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4321 Automatic Control Systems
A-F only, 3 credit(s); [4303 or equiv or ME 3281 OR EE 3015], [CSE upper div or grad student]; Credit will not be granted if credit has been received for: EE 4231;
Instructor: Georgiou, Tryphon T
Description: Student may contact the instructor or department for information.

AEM 4331 Aerospace Vehicle Design
A-F only, 4 credit(s);
Instructor: Garrard, William L
Description: Student may contact the instructor or department for information.

AEM 4371 Helicopter Aerodynamics
3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4502 Computational Structural Analysis
3 credit(s);
Instructor: Elliott, Ryan S.
Description: Student may contact the instructor or department for information.

AEM 4595 Problems in Mechanics and Materials
1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: STAFF
Description: Topics of current interest. Individual projects with consent of faculty sponsor.

AEM 4602W Aeromechanics Laboratory
A-F only, 4 credit(s); Meets CLE req of Writing Intensive
Instructor: Longmire, Ellen K
Description: (Writing Intensive Course) Experimental methods and design in fluid and solid mechanics. Wind tunnel and water channel experiments involving flow visualization, pressure, velocity, and force measurements. Experimental measurement of stresses, strains, and displacements in solids and structures, including stress concentrations, aerospace materials behavior and structural dynamics. Computerized data acquisition and analysis, error analysis, data reduction techniques. Experimental design, written and oral lab reports required.

AEM 4796 Professional Experience
A-F only, 3 credit(s);
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AEM 4896 International Professional Experience
A-F only, 3 credit(s);
Instructor: Garrard, William L
Description: Student may contact the instructor or department for information.

AEM 5251 Computational Fluid Mechanics
A-F only, 3 credit(s);
Instructor: Schwartzentruber, Thomas E
Description: Student may contact the instructor or department for information.

AEM 5321 Modern Feedback Control
3 credit(s);
Instructor: Jovanovic, Mihailo
Description: Student may contact the instructor or department for information.

AEM 5401 Intermediate Dynamics
A-F only, 3 credit(s);
Instructor: Ketema, Yohannes
Description: Student may contact the instructor or department for information.

AEM 5451 Optimal Estimation
A-F only, 3 credit(s); [MATH 2243 or STAT 3021 or equiv], [4321 or EE 4231 or ME 5281 or equiv] or instr consent
Credit will not be granted if credit has been received for: EE 5251;
Instructor: Gebre Egziabher, Demoz
Description: Student may contact the instructor or department for information.

AEM 5501 Continuum Mechanics
3 credit(s);
Instructor: Tadmor, Ellad B
Description: Student may contact the instructor or department for information.

AEM 8000 Seminar: Aerospace Engineering and Mechanics
S-N only, 1 credit(s), max credits 4, 4 completions allowed;
Instructor: Shield, Thomas William
Description: Student may contact the instructor or department for information.

AEM 8201 Fluid Mechanics I
3 credit(s);
Instructor: Longmire, Ellen K
Description: Student may contact the instructor or department for information.

AEM 8203 Fluid Mechanics III
3 credit(s);
Instructor: Mahesh, Krishnan
Description: Student may contact the instructor or department for information.

AEM 8231 Molecular Gas Dynamics
3 credit(s); [4201 or equiv], [4203 or equiv], [ME 3324 or equiv] Credit will not be granted if credit has been received for: ME 8361;
Instructor: Girshick, Steven L
Description: Student may contact the instructor or department for information.

AEM 8495 Advanced Topics in Aerospace Systems
A-F only, 1-4 credit(s), max credits 9, 8 completions allowed;
Instructor: STAFF
Description: The aim of the course is to learn how to exploit information contained in data collected from a dynamical system to determine mathematical models describing the system’s dynamical behavior. Methods of system
identification are based on the theoretical principles of systems and signals. While the focus of the course is primarily on linear dynamical systems (described by a set of linear differential equations), the course will also cover general considerations about how to treat nonlinear. The system identification principles and methods apply to a wide range of areas. Examples used in the course will cover problems from current research in aerospace (e.g., miniature helicopter, micro-air vehicle) as well as problems from other areas like robotics, neurosciences, and economics. The primary textbook used for the course is "System Identification: Theory for the User" by L. Ljung. The other texts used as references in the course are listed in the reference section.

AEM 8595 Selected Topics in Mechanics and Materials
1-4 credit(s), max credits 8, 8 completions allowed;
Instructor: STAFF
Description: Student may contact the instructor or department for information.

Air 1000 Leadership Laboratory
S-N only, 1 credit(s), max credits 10, 10 completions allowed;
Instructor: Peterson, Major Chris
Description: Student may contact the instructor or department for information.

Air 1104 Introduction to the Air Force Today I
A-F only, 1 credit(s);
Instructor: Bliss, Adam J
Description: The Foundations of the United States Air Force Air 1104 introduces the mission and organization of the Air Force, officer'ship and professionalism, military customs and courtesies, Air Force officer opportunities, group leadership problems, and introduction to communication skills.
Style: 65% Lecture, 15% Film/Video, 10% Discussion, 10% Student Presentation.
Grading: 25% mid exam, 25% final exam, 13% special projects, 12% quizzes, 25% class participation.
Exam Format: Short Answer / Multiple Choice

Air 1204 History of Airpower and Communication Skills
A-F only, 1 credit(s);
Instructor: Hoopes, David A
Description: Student may contact the instructor or department for information.

Air 3301 Air Force Leadership, Quality, and Communication
A-F only, 3 credit(s);
Instructor: STAFF
Description: AS 3301 is a study of leadership, quality management fundamentals, and communication skills required of an Air Force Junior officer. Case studies are used to examine Air Force leadership and management situations as means of demonstrating and exercising practical application of the concepts being studied. A mandatory Leadership Laboratory (cadets only) complements this course by providing advanced leadership experiences in officer-type activities, and gives the students an opportunity to apply leadership and management principles taught in this course. Target audience in first semester meet juniors.
Style: 45% Lecture, 30% Discussion. Video tapes
Grading: 20% reports/papers, 40% quizzes, 20% in-class presentation, 20% class participation. 40% tests
Exam Format: Multiple choice, T/F, short answer

Air 3401 National Security Policy
A-F only, 3 credit(s);
Instructor: STAFF
Description: AS400 examines the national security process, regional studies, advanced leadership ethics, Air Force doctrine, and military justice. Special topics of interest focus on the military as a profession, officer'ship, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills. A Leadership Laboratory complements this course by providing advanced leadership experiences, giving the students an opportunity to apply leadership and management principles taught in this course. Target audience is first semester seniors preparing to enter active duty as commissioned Second Lieutenants in the US Air Force. Classes are a combination of lecture and guided discussion.
Class time: 50% lecture, 30% discussion, 20% student briefings. Work load: 70 pages of reading per week, 2 exams, 3 papers, 2 oral presentations. Exam format: essay, short answer, matching.
Style: 50% Lecture, 30% Discussion. student briefings
Grading: 25% mid exam, 25% final exam, 30% reports/papers, 20% in-class presentation.
African American and African Studies  808 Social Sciences Tower

Afro 1012 Black Worlds in Global Perspective: Challenges and Changes  
3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences  
Instructor: Coleman PhD, Taiyon J  
Description: Student may contact the instructor or department for information.

Afro 1021 Introduction to Africa  
4 credit(s); Meets CLE req of Global Perspectives  
Instructor: Coifman, Victoria Bomba  
Description: This course is an introduction to the people of the African continent and incorporates fascinating findings from geography, archaeology, history, literature, economics and politics. A highlight of the semester is our participation in the US World Food Day Conference in October. The class actively participates in the televised events of the day and students especially enjoy this segment of our work. The course provides solid background information about the continent's past and present and gives the context for understanding the serious issues facing Africans today - in areas of government, education, poverty, health and disease, environment, international relations. While learning basic and theoretical information, we are preparing for practical activities in the future. African peoples have faced increasing changes in the last 500 years. The African "Diaspora" begun centuries ago, brought Africans and their descendants to new lives on all the continents and newcomers are adding to the diversity of this State even now. In Africa itself, long distance contacts and trade in commodities and the periods of the Trans Saharan and Atlantic slave trade (16th to 19th centuries) and the Indian Ocean slave trade, were followed by the era of European colonial rule from the late 19th century to the early 1960s (for most of Africa).  
Style: 50% Lecture, 30% Discussion. These bring visuals and new perspectives to our understanding of a lively continent.  
Grading: 25% mid exam, 25% final exam, 25% reports/papers, 25% special projects.  
Exam Format: short identifiers and essay - there are choices in all parts of the exam to allow for factual information and students' experiences and creativity.

Afro 1902 Freshman Seminar: Social and Cultural History of Blacks in Sports  
3 credit(s); Meets CLE req of Diversity and Soc Justice US  
Instructor: Atkins, Keletso E  
Description: Student may contact the instructor or department for information.

Afro 3001 West African History: Early Times to 1800  
3 credit(s); Credit will not be granted if credit has been received for: HIST 3454; Meets CLE req of Global Perspectives  
Instructor: Coifman, Victoria Bomba  
Description: This course will examine the story of some of the people of this region, especially through the changes and developments which took place among several individual groups. The emphasis will be upon understanding well, the events of some "representative" people's histories, rather than attempting to understand what occurred in each and every group. There are too many groups and activities to study in a semester. Main themes of the course will include the family or lineage as the building block of all other institutions, the development of centralized political authority or states in West Africa, and the organization of people who did not adopt the state idea. We will examine economic developments, the spread of Islam, and the appearance of Europeans off certain coastal areas. Here a new frontier or border formed, one of hundreds in West African History. As with all other West African borders, the operational institutions of the African-European frontier were mainly being set by West African mechanisms. Until well into the nineteenth century, therefore, European (and American) traders were paying tribute and were in client, guest, or "stranger" relations with their West African patrons, hosts, or "landlords".

Afro 3108 Black Music: A History of Jazz  
3 credit(s);  
Instructor: Williams, Yolanda Y  
Description: This is a fully online section offered through Online and Distance Learning (ODL), College of Continuing Education. Visit "Class URL" for ODL policies, including fee and financial aid restrictions. The History of Jazz course looks at the development of America's true "classical" musical form. We will trace the roots of Jazz from West Africa to the spirituals and work songs of the African slave through Blues to the first form of Jazz--New Orleans Dixieland. The other jazz forms of Swing, Bebop, and Cool through Neo-Classicism will also be studied. Because the course focuses primarily on the social, economic, and political impact on jazz, and vice versa, it is a perfect course for both the musician and the non-musician. Musicians will appreciate the developmental aspects of this once brand-new musical form and will gain a better understanding of how musical elements such as form, instrumentation, etc., and life interact.
and evolve.

**Style:** Online

**Grading:** See attached syllabus

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**Afro 3112 In the Heart of the Beat: the Poetry of Rap**
- A-F only, 3 credit(s);
- **Instructor:** Coleman PhD, Taiyon J
- **Description:** Student may contact the instructor or department for information.

**Afro 3120 Social and Intellectual Movements in the African Diaspora**
- A-F only, 3 credit(s); Credit will not be granted if credit has been received for: AFRO 5120;
- **Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives**
- **Instructor:** Atkins, Keletso E
- **Description:** Student may contact the instructor or department for information.

**Afro 3205 History of South Africa from 1910**
- 3 credit(s); Credit will not be granted if credit has been received for: HIST 3435;
- **Instructor:** Pohlandt-McCormick, Helena
- **Description:** Student may contact the instructor or department for information.

**Afro 3432 Modern Africa in a Changing World**
- 3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HIST 3432;
- **Meets CLE req of Global Perspectives; meets CLE req of Historical Perspectives**
- **Instructor:** Isaacman, Allen F
- **Description:** Student may contact the instructor or department for information.

**Afro 3597W Introduction to African American Literature and Culture I**
- 4 credit(s); Credit will not be granted if credit already received for: Afro 3591W
- **Credit will not be granted if credit has been received for: ENGL 3597W; Meets CLE req of Literature; meets CLE req of Writing Intensive**
- **Instructor:** Wright, John S
- **Description:** African Americans are "America's metaphor" Richard Wright declared, posing both a riddle and a riff - a wry reversal of conventional perspectives. Wright intimated that we might discover in the shadows of American literary life our brightest mirrors. We might thereby see ourselves—and the paradoxes and potentialities of our national experience—through the world of words and images conjured up over the past two centuries by African American writers. African American literature is a heavily "committed" tradition with both ancient African and Euro-American antecedents. Much of its mythological system and special "equipment for living" has been built on the communal base of the most elaborate vernacular tradition in American English—epic tales and legends, spirituals, blues, work songs, ballads, rhymed toasts, riddles, proverbs, jazz, jokes, and the rhetoric of rap music. Over the course of two semesters, in exploring the intricate world of cultural myth and metaphor that has resulted, our own caravan will lead us forward from pre-modern Africa itself and the era of the earliest African American literary works - 18th and 19th century slave autobiographies, oral folk texts, abolitionist essays, orations and poems-on to the contemporary period of literature marked by burgeoning diversity and modernist innovation, by growing critical acclaim, and by politico-aesthetic movements such as the Jazz Age Harlem Renaissance and the Black Arts Movement of the 1960s and 70s.
- **Style:** 40% Lecture, 40% Discussion, 5% Laboratory. outside film viewings and online assignments
- **Grading:** 83% reports/papers, 17% quizzes.
- **Exam Format:** Quizzes are multiple choice and short answer

**Afro 3627 Seminar: Harlem Renaissance**
- 3 credit(s); Credit will not be granted if credit has been received for: ENGL 5597;
- **Instructor:** Wright, John S
- **Description:** Student may contact the instructor or department for information.

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**Afro 3864 African American History: 1619 to 1865**
- 3-4 credit(s), max credits 4, 1 completion allowed; Credit will not be granted if credit has been received for: HIST 3864;
- **Instructor:** Lindquist, Malinda A
- **Description:** Student may contact the instructor or department for information.

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**Afro 3866 The Civil Rights and Black Power Movement, 1954-1984**
- 3 credit(s); Credit will not be granted if credit has been received for: AFRO 5866;
- **Instructor:** Mayes, Keith A
Afro 3910 Topics in the African Diaspora: Conflict & Peace in Eritrea, Ethiopia and Somalia
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Araia, Semhar
Description: The Horn of Africa is a diverse, complex region whose topography, natural resources, multi-ethnic groups and varied interests all too often lead to armed conflict and regional wars. Over the last fifty years, the Horn has undergone massive transformation through successive interstate and intrastate wars between armed groups and state authorities. Systematic and ongoing conflicts continue to plague the region, existing in low-level, high-intensity and highly militarized environments. These conflicts are exacerbated and often intensified due to reoccurring natural disasters, foreign intervention and geopolitical threats and interests. This course will introduce students to the modern political history of the Horn of Africa and examine the nature of conflict and peace in Eritrea, Ethiopia and Somalia. The specific themes that will be covered include post-colonization independence, reoccurring and systematic conflict, humanitarian crises, and the role of foreign aid, development and peacemaking. The course will also focus on the Horn’s relations with the international community with emphasis on US foreign policy, conflict resolution, security, and development in the region.

Afro 4105 Ways of Knowing in Africa and the African Diaspora
A-F only, 3 credit(s);
Instructor: Brewer, Rose Marie
Description: Student may contact the instructor or department for information.

Afro 4991W Thesis Research and Writing
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Onishi, Yuichiro
Description: Student may contact the instructor or department for information.

Afro 5120 Social and Intellectual Movements in the African Diaspora
A-F only, 3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: AFRO 3120;
Instructor: Atkins, Keletso E
Description: Student may contact the instructor or department for information.

Afro 5627 Seminar: Harlem Renaissance
3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: AFRO 3627;
Instructor: Wright, John S
Description: Student may contact the instructor or department for information.

Afro 5876 Proseminar: Approaches to African Development
3 credit(s);
Instructor: Okediji, Tade O
Description: Student may contact the instructor or department for information.

Afro 5910 Topics in African American and African Studies: Conflict & Peace in Eritrea, Ethiopia and Somalia
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Araia, Semhar
Description: Student may contact the instructor or department for information.

Afro 5910 Topics in African American and African Studies: Anthropology of American Culture
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Afro 5932 The Production of Knowledge, Negotiating the Past, and the Writing of African Histories
A-F only, 3 credit(s); Grad student or instr consent Credit will not be granted if credit has been received for: HIST 5932;
Instructor: Isaacman, Allen F
Description: Student may contact the instructor or department for information.
Afro 8202 Seminar: Intellectual History of Race
3 credit(s);
Instructor: Brewer, Rose Marie
Description: Student may contact the instructor or department for information.

Agricultural, Food, and Environmental Education 146 Ruttan Hall

AFEE 1001 Introduction to Agricultural Education and Extension
1 credit(s);
Instructor: Smith, Amy Rae
Description: Student may contact the instructor or department for information.

AFEE 2051 Current Technical Competencies
3 credit(s);
Instructor: Swiggum, James Frederick
Description: Student may contact the instructor or department for information.

AFEE 2221 People Skills for Leadership
A-F only, 3 credit(s);
Instructor: Peterson, Roland L
Description: Student may contact the instructor or department for information.

AFEE 2421 Professional Communication for Agriculture, Food, and the Environment
A-F only, 3 credit(s);
Instructor: Swenson, Rebecca Dean
Description: This course is open to any student who wants to practice communicating effectively with many audiences. Students who want to be the next generation of teachers, scientists, industry leaders, advocates, and policy makers must learn how to communicate with the public, their peers, and other audiences. Success in the professional world requires more than mastery of technical knowledge; professionals must be able to communicate information and ideas with clarity, logic, and strategy in order to make an impact and enact change. The goal of this course is to help students practice foundational writing and speaking skills needed to join current conversations about agriculture, food, and natural resource use and to be successful in a wide variety of careers. For the final project, students work in teams to put together a symposium, modeled after the TED Talks conference (www.ted.com), in which they practice presenting engaging information to different audiences about important issues related to food, agriculture, or environmental challenges and solutions.
Style: 50% Lecture and Discussion, 50% Course Projects and Activities.
Grading: 60% Oral and Written Assignments; 20% quizzes; 20% Attendance, Discussion Board Postings and Participation
Exam Format: No exams. 3 quizzes. (Two quizzes are open-book format; the third is a team-based quiz.)

AFEE 3096 Experiential Learning: Production and Business
1-8 credit(s), max credits 12, 12 completions allowed;
Instructor: Swenson, Rebecca Dean
Description: Student may contact the instructor or department for information.

AFEE 3112 Building Construction Technology
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: OLPD 3412;
Instructor: Swiggum, James Frederick
Description: Student may contact the instructor or department for information.

AFEE 3361 World Development Problems
3 credit(s); Credit will not be granted if credit has been received for: AFEE 5361; Meets CLE req of Global Perspectives
Instructor: Plonski, Patrick John
Description: Student may contact the instructor or department for information.

AFEE 5111W Agricultural Education: Methods of Teaching
4 credit(s); Meets CLE req of Writing Intensive
Instructor: Greiman, Brad
Description: The goal of this course is to provide an overview of instructional strategies utilized by agricultural education instructors in secondary schools, and by adult educators in agricultural businesses, organizations, and
government agencies. This course will examine the teaching and learning process, and is intended to assist agricultural education undergraduate students in developing effective teaching skills. Students will learn techniques necessary for designing instruction, motivating learners, leading the educational process, and managing the learning environment. The problem-solving approach to teaching is stressed for a major portion of the course and students have the opportunity to practice the delivery of instruction in a performance-based format.

**Style:** 40% Lecture, 30% Discussion, 30% Laboratory.

**AFEE 5280 Current Issues for the Beginning Agricultural Education Teacher**
1-3 credit(s), max credits 3, 1 completion allowed;
Instructor: Greiman, Brad
Description: Student may contact the instructor or department for information.

**AFEE 5290 Seminar: Current Issues in Agricultural Education and Extension**
1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Smith, Amy Rae
Description: Student may contact the instructor or department for information.

**AFEE 5361 World Development Problems**
3 credit(s); Grad students only
Credit will not be granted if credit has been received for: AFEE 3361;
Instructor: Plonski, Patrick John
Description: Student may contact the instructor or department for information.

**AFEE 5697 Teaching Internship: School and Classroom Setting**
2 credit(s);
Instructor: Smith, Amy Rae
Description: Student may contact the instructor or department for information.

**AFEE 5993 Directed Study in Agricultural Education and Extension**
1-9 credit(s), max credits 9, 1 completion allowed;
Instructor: Swenson, Rebecca Dean
Description: Student may contact the instructor or department for information.

**AFEE 5993 Directed Study in Agricultural Education and Extension**
1-9 credit(s), max credits 9, 1 completion allowed;
Instructor: Greiman, Brad
Description: Student may contact the instructor or department for information.

**AFEE 5993 Directed Study in Agricultural Education and Extension**
1-9 credit(s), max credits 9, 1 completion allowed;
Instructor: Smith, Amy Rae
Description: Student may contact the instructor or department for information.

**AFEE 5995 Integrating Paper--Master of Education: Agricultural and Extension Education**
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Greiman, Brad
Description: Student may contact the instructor or department for information.

**AFEE 5995 Integrating Paper--Master of Education: Agricultural and Extension Education**
A-F only, 1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Smith, Amy Rae
Description: Student may contact the instructor or department for information.

**Agronomy and Plant Genetics  411 Borlaug Hall**

**Agro 1093 Directed Studies**
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Smith, Kevin Paul
Description: Student may contact the instructor or department for information.
Agro 1103 Crops, Environment, and Society
4 credit(s); Credit will not be granted if credit has been received for: AGUM 2222; Meets CLE req of Environment
Instructor: Sheaffer, Craig Charles
Description: Life on earth is dependent on plants. Learn about food, fiber, and medicinal plants that are important to our society, their impact on environmental quality, and how they are improved and cultured. Discuss currently important topics such as genetic engineering, food safety, water quality, organic agriculture, and species preservation. In a laboratory, learn about how plants grow, and about food products derived from plants. This course is intended for undergraduate majors and non-majors interested in a general understanding of food and fiber production from crop plants. In the class, we use several approaches to learning, such as case studies, and minimize lecturing. We promote discussion by viewing videos and reviewing recent newspaper and magazine articles.
Style: 30% Lecture, 40% Discussion, 20% Laboratory. Problem solving
Grading: 40% mid exam, 20% final exam, 20% laboratory evaluation, 20% problem solving.
Exam Format: Short answer

Agro 1660 First-Year Colloquium/Experience in Agroecosystems Analysis
A-F only, 2 credit(s);
Instructor: Smith, Kevin Paul
Description: Student may contact the instructor or department for information.

Agro 2501 Plant Identification for Urban and Rural Landscapes
2 credit(s); Biol 1009 or equiv Credit will not be granted if credit has been received for: AGUM 2240;
Instructor: Durgan, Beverly R
Description: Intended to familiarize undergraduate students with plant and weed species that are important in turf, horticulture, forestry, and crop production systems. Emphasis on identification of native grasses and forbs, field crops, and weed species found in Minnesota and the upper midwest area of the U.S.A. Students will also study plant life cycles, habitats, and relationships to humans.

Agro 4093 Directed Studies for Advanced Students
1-4 credit(s), max credits 12, 12 completions allowed;
Instructor: Brakke, Mary Patricia
Description: Student may contact the instructor or department for information.

Agro 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6, 6 completions allowed;
Instructor: Brakke, Mary Patricia
Description: Student may contact the instructor or department for information.

Agro 4097 Undergraduate Research Thesis
A-F only, 1-6 credit(s), max credits 12;
Instructor: Smith, Kevin Paul
Description: Students work with a faculty member to develop a research project, carry out the research, and write a thesis.
Style: Regular meetings are scheduled with instructor.
Grading: 100% reports/papers.

Agro 4103 World Food Problems
3 credit(s); Jr or Sr or grad Credit will not be granted if credit has been received for: APEC 4103; Meets CLE req of Global Perspectives
Instructor: Porter, Paul M
Description: This course provides a multi-disciplinary look at problems (and some of the possible solutions) affecting food production, storage, and utilization. Presentations and discussions introduce and discuss sometimes conflicting views on population control, use of technology, as well as the ethical and cultural values of people in various countries of the world. Emphasis is placed on the need for governments, international assistance agencies, international research and extension centers, as well as the private business sector to assist in solving these complex problems. Students can enroll in either Agro 4103 or APEc 4103. Previous background in any of the disciplines is not required, but students should expect upper division and/or graduate level assignments.
Style: 33% Lecture, 33% Discussion.
Grading: 60% reports/papers, 25% special projects, 15% class participation.

Agro 4660 Senior Capstone
A-F only, 2 credit(s);
Instructor: Muehlbauer, Gary John
Description: This course examines the complexities of agricultural issues through a series of discussions. The course also engages students in exercises and discussions that integrate previous educational situations. This course is linked to undergraduate internships and other experiential learning opportunities such as thesis or direct studies and service learning. Written and oral assignments are based on internships or other learning experiences.
Style: 10% Lecture, 90% Discussion.
Grading: 50% reports/papers, 30% in-class presentation, 20% other evaluation. class discussion

**Agro 4888 Issues in Sustainable Agriculture**
2 credit(s);
Instructor: Sheaffer, Craig Charles
Description: Study the social, economic, political and environmental aspects of a sustainable agriculture through discussions with experts in the field. Specific topics can include: the history of agriculture and the family farm, government farm policy, the importance of biodiversity for healthy landscapes, rural communities, quality of life, community supported agriculture, organic agriculture, landscape health and non-profit organizations. Teaching approaches will include student, faculty and producer-led discussions. The course will include on-farm visits. Target audience: non-majors and majors interested in sustainable agriculture.

**Agro 5311 Research Methods in Crop Improvement and Production**
S-N only, 1 credit(s);
Instructor: Anderson, James Allan
Description: Student may contact the instructor or department for information.

**Agro 5999 Special Topics: Workshop in Agronomy**
1-6 credit(s), max credits 6, 3 completions allowed;
Instructor: Porter, Paul M
Description: Student may contact the instructor or department for information.

**Agro 8201 Advanced Plant Breeding**
A-F only, 3 credit(s); STAT 5301 or equiv Credit will not be granted if credit has been received for: HORT 8201;
Instructor: Anderson, James Allan
Description: Principles/current methods involved in breeding agronomic and horticultural crops. Use of genotype/environment data to increase genetic gain, population improvement, parent building, alternative selection strategies, breeding for special traits, and new approaches.

**Agro 8270 Graduate Seminar**
A-F only, 1 credit(s); Grad major in [applied plnt sci or agro or ent or hort or plnt brdg or plnt path or soil] or instr consent Credit will not be granted if credit has been received for: HORT 8270;
Instructor: Wyse, Donald L
Description: Student may contact the instructor or department for information.

**American Indian Studies 19 Scott Hall**

**Amln 1001 American Indian Peoples in the United States**
3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: STAFF
Description: This course is intended to give students a general overview of the contemporary and historic experiences of American Indian peoples in the United States and Canada. It challenges the dominant culture's stereotypes and its unthinking assumptions about American Indian people in the past and present. It shows how the peoples of America's First Nations engaged the presence and representations of foreigners in their midst through acts of resistance, rebellion, accommodation, and innovation. In the process, it illustrates the great diversity of tribal
cultures and histories in North America, and it gives evidence of this in the areas of identity, work, philosophy, politics, society, language, religion, literature, and the arts.

AmIn 1002 Indigenous Peoples in Global Perspective
A-F only, 3 credit(s); Credit will not be granted if credit has been received for: POL 1019; Meets CLE req of Global Perspectives
Instructor: Wilkins, David E
Description: This course focuses on the social, cultural and political relationship between selected indigenous peoples and the nation-states that settled in their territories and explores the various ways these states attempted to exterminate, incorporate, and segregate the native peoples they encountered. This class can be taken as an American Indian Studies course or a Political Science Studies course. It has been cross-listed. This course fulfills CLE requirements of Global Perspective Theme.

AmIn 1003 American Indians in Minnesota
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Ghebregzi, Alex Anthony
Description: Student may contact the instructor or department for information.

AmIn 1003 American Indians in Minnesota
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: McKay, Neil Troy
Description: The course will focus in particular on the history, culture, and lived experience of American Indian people in the state of Minnesota. This course will explore how Anishinaabe (Ojibwe) and Dakota people have represented their lives and histories through film, music, oral traditions and written texts. It also includes some work by non-Indian scholars which focus on the distinctive cultural, philosophical, and linguistic perspectives of Anishinaabe and Dakota peoples. The course invites local Dakota and Ojibwe artists, elders, and scholars to speak on their own experiences. It is particularly interested in revalidating the students' tribal pedagogical and epistemological perspectives or "ways of knowing" as practiced by Indian people in Minnesota today and in the past. This course will introduce students to the humanities as understood within the intellectual perspectives and methodologies of the Dakota and Ojibwe, in particular, and American Indian Studies, more generally. Since these perspectives fall outside the western humanities tradition, this course offers a culturally unique and tribally based perspective on subject matter in the humanities, namely literature, art, music, philosophy and language.
Style: 40% Lecture, 30% Discussion. video, guest speakers
Grading: 20% mid exam, 20% final exam, 20% reports/papers, 10% class participation, 30% other evaluation.
Exam Format: question and answer, open ended, true false

AmIn 3109 Anishinaabe Literature
A-F only, 3 credit(s); Meets CLE req of Diversity and Soc Justice US; Meets CLE req of Literature
Instructor: Jones, Dennis
Description: Student may contact the instructor or department for information.

AmIn 3201W American Indian Literature
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Meland, Carter
Description: How do you creatively respond to the transformations and deformations introduced into Native America by the colonizing cultures of Europe and Euroamerica? In this course we examine how a select group of American Indian writers creatively respond to the experience of colonization in the narratives they imagine. This question is not aimed exclusively at American Indian writers though, nor is it even more generally aimed only at Indian people. Rather this question about colonization is aimed at everyone living here now: How do you (you sitting there reading this statement) creatively respond to the transformations and deformations introduced into Native America by the colonizing culture of Euroamerica? This course invites you to think about this question and this writing, even if you never have before. In class discussions we will examine how various writers approach this question and we will familiarize ourselves with the ideas, themes, and tools Native writers use through close readings of their works. In addition to examining the works we will also examine ways the various works ask us to consider and reconsider our own experiences of living in North America. Your responses to the works and our guiding question will be explored, examined, and developed in class discussions, a variety of short writing assignments, and in a final research essay. You will read four or five books for the course as well as a half-dozen or so short readings. As the course is Writing-Intensive you will also do about 40 pages of writing.
Style: 10% Lecture, 90% Discussion.
Grading: 80% reports/papers, 20% quizzes.
AmIn 3201W American Indian Literature
3 credit(s);Meet CLE req of Diversity and Soc Justice US; meets CLE req of Literature; meets CLE req of Writing Intensive
Instructor: Power,Susan Mary
Description: Student may contact the instructor or department for information.

AmIn 3205 Introduction to Aztec, Maya, and Inka Art, from Ancient Times to the Colonial Period
3 credit(s);Credit will not be granted if credit has been received for: ARTH 3205;Meets CLE req of Arts/Humanities
Instructor: Afanador-Pujol,Angelica J
Description: Student may contact the instructor or department for information.

AmIn 3301 American Indian Philosophies
4 credit(s);Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: STAFF
Description: The purpose of this course is to introduce students to the philosophical thought and spiritual beliefs of native peoples of North America. Students will examine a broad spectrum of issues which influence the worldview of native people on this continent, including European contact and thought. Students may find some of the issues to be controversial and personally challenging, however, a thorough discussion of the impact of European influences is important to understanding native people's resistance and survival. Finally, students will also explore the ways in which native philosophy and spiritual practices shape native life experience in a society viewed by many native people as being at odds with their beliefs.
Style: 60% Lecture, 20% Discussion. Group work
Grading: 33% mid exam, 33% final exam, 17% reports/papers, 17% class participation.
Exam Format: The exams will be a take home essay.

AmIn 3303 American Indians and Photography
3 credit(s);Credit will not be granted if credit has been received for: AMIN 5303;Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Albers,Patricia
Description: This course is an historical overview of photographic representations in which American Indian people have been the central subjects. 1) It entails a study of the subtle, complex, and ever-changing relationships between those who take, pose for, and view pictures of American Indians. 2) It considers how the social contexts and purposes of picture-taking influence the content, composition, and coding of images which make up the field of American Indian photographs. 3) It gives attention to the diverse and often contradictory ways in which photographs are understood in meaningful ways, and more specifically, it inquiries into whether American Indian cultures engage processes of photographic representation through distinct aesthetic standards and practices. 4) In doing so, it takes a critical look at how the appearance and meaning of photographs are related not only to the cultural contexts in which they are produced, but also to the agencies of those who stand behind their making. Special attention is paid to some of the intended as well as unintended ideological and political consequences of photographic image-making in historical settings dominated by colonialism and its gaze.
Style: 40% Lecture, 40% Discussion. reading and studying photographs
Grading: 60% reports/papers, 40% special projects.

AmIn 3402 American Indians and the Cinema
A-F only, 3 credit(s);Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Lawson,Angelica
Description: Student may contact the instructor or department for information.

AmIn 3501 American Indian Tribal Governments and Politics
A-F only, 3 credit(s);Credit will not be granted if credit has been received for: POL 3701;Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Wilkins,David E
Description: This course examines the origins, status, structures, and powers of American Indian governments and the distinctive politics associated with these First Nations who constitute the third set of sovereign governments in the U.S. whose existence long predates the federal and state governments. This course fulfills CLE requirements of Social Science core and Citizenship and Public Ethics themes.
Style: 25% Lecture, 75% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 20% other evaluation. weekly questions based on readings
Exam Format: long essays
AmIn 3701 Ojibwe Culture and History
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Jones, Dennis
Description: An introductory overview of Ojibwe culture, history, beliefs, and traditions, including philosophy and world view. The course is presented in four parts, with a test and a paper due at the completion of each part.
Style: 50% Lecture, 50% Discussion.
Grading: 20% final exam, 40% reports/papers, 40% quizzes.
Exam Format: Multiple choice; true/false; and matching

AmIn 3711 Dakota Culture and History
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: STAFF
Description: This course focuses on Dakota culture and history. Our emphasis will be on the four bands of the Santee Dakotas: the Mdewakanton, Wahpekute, Wahpeton, and the Sisseton. The content of the course will be regionally based, that is, we will study primarily the Dakota bands located in Minnesota and eastern South Dakota. This course will introduce you to many aspects of Dakota culture. We will first begin with a historical overview of the Dakota people, this section will lead us to a significant event in Dakota History: the Uprising/War/Conflict of 1862. As you learn about Dakota history, you will also become aware of the culture of the Santee Dakota. This will involve oral history and narratives, music and dance, artistic expression, language, and discussions of contemporary issues relevant to the Dakota people. Target audience: anyone interested in American Indian Studies.
Style: 10% Lecture, 60% Discussion.
Grading: 20% mid exam, 20% final exam, 40% reports/papers, 10% in-class presentation, 10% class participation.
Exam Format: Multiple Choice, Essay

AmIn 3871 American Indian History: Pre-Contact to 1830
3 credit(s); Credit will not be granted if credit has been received for: HIST 3871; Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: Chang, David Anthony
Description: American Indian history is far more than just the history of the loss of lands to the United States—which is the way we normally encounter it in our textbooks. It is the history of societies that were changing long before Columbus ever stumbled ashore in the Caribbean. It is the history of changing ideas about men and women, humans and spirits, people and animals. It is the story of work—whaling and the fur trade and farming and more. It is the story of grand confederacies of native nations, individual marriages, religious conflict, and intrigue, alliances, and warfare among scores of native societies, five empires, and two new settler nations. This is the rich and diverse history we will explore together in this class. Students should come prepared to use their intellectual talents, to draw on their knowledge of history, to exercise their reading and writing abilities, and to share their ideas.
Style: 50% Lecture, 10% Film/Video, 40% Discussion.
Grading: 20% mid exam, 25% final exam, 35% reports/papers, 20% class participation. Class participation includes discussion and also occasional map quizzes, etc.
Exam Format: Take-home essay format.

AmIn 4820W Senior Seminar
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Child, Brenda J
Description: Student may contact the instructor or department for information.

AmIn 5303 American Indians and Photography
3 credit(s); Credit will not be granted if credit has been received for: AMIN 3303; Meets CLE req of Arts/Humanities; meets CLE req of Diversity and Soc Justice US
Instructor: Albers, Patricia
Description: This course is an historical overview of photographic representations in which American Indian people have been the central subjects. 1) It entails a study of the subtle, complex, and ever-changing relationships between those who take, pose for, and view pictures of American Indians. 2) It considers how the social contexts and purposes of picture-taking influence the content, composition, and coding of images which make up the field of American Indian photographs. 3) It gives attention to the diverse and often contradictory ways in which photographs are understood in meaningful ways, and more specifically, it inquires into whether American Indian cultures engage processes of photographic representation through distinct aesthetic standards and practices. 4) In doing so, it takes a critical look at how the appearance and meaning of photographs are related not only to the cultural contexts in which they are produced, but also to the agencies of those who stand behind their making. Special attention is paid to some of the intended as well as unintended ideological and political consequences of photographic image-making in historical settings dominated by colonialism and its gaze.
Style: 40% Lecture, 40% Discussion. reading and studying photographs
Grading: 60% reports/papers, 40% special projects.
American Sign Language 240 Learning & Environmental Sciences Building

ASL 1701 American Sign Language I
5 credit(s);
Instructor: STAFF
Description: A study of the fundamentals of American Sign Language: Introduction to learning and understanding American Sign Language, cultural values and rules of behavior of the deaf community in the United States. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, and deaf culture. *Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 1702 American Sign Language II
5 credit(s);
Instructor: STAFF
Description: Continuation of the study of the fundamentals of American Sign Language: Increased communication skill in American Sign Language, cultural values and behavioral rules of the deaf community in the U.S., receptive and expressive, sign vocabulary, grammatical structure, receptive and expressive finger spelling and aspects of deaf culture. (SP-ASL 1701 or instructor approval) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 3703 American Sign Language III
5 credit(s);
Instructor: STAFF
Description: Expanded instruction of American Sign Language receptive and expressive activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, narrative skills, cultural behaviors, and aspects of deaf culture. Abstract and conversational approach. (SP-ASL 1702 or instructor approval) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 3704 American Sign Language IV
5 credit(s);
Instructor: STAFF
Description: Increases the emphasis on more abstract and challenging conversational and narrative range. Includes receptive and expressive readiness activities, sign vocabulary, grammatical structure, receptive and expressive finger spelling, various aspects of deaf culture and cultural behavior rules. (SP-ASL 1703 or instructor approval) Please note: A nominal fee may be required to attend a Deaf cultural and/or American Sign Language related event.

ASL 3705 Cultural Perspectives of Deafness
3 credit(s);
Instructor: STAFF
Description: Introduction to the deaf community as a linguistic and cultural minority group. The role of deaf people in the larger society, political activism, laws, access to information, educational philosophies and methods, and communication systems.

ASL 3800 ASL Independent Study: Extended Study
S-N only, 1-3 credit(s), max credits 6;
Instructor: Applebee, Shirley D
American Studies 104 Scott Hall

AmSt 1401 Comparative Genders and Sexualities
3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: Fajardo, Kale Bantigue
Description: Sissies, Sex Workers, and Seamen: How and why do people understand their genders and sexualities differently in diverse cultural contexts and locations? How has capitalism, colonialism, immigration, migration, and globalization impacted genders and sexualities in North America, Asia, the Pacific, Latin America, and Africa? The course stresses studying genders and sexualities within a cross-cultural and comparative (e.g. international/regional) framework, and also emphasizes an intersectional approach: that is, in order to analyze gender and sexuality, we must also think about how race, class, ethnicity, nationality, and geography "inform" how gender and sexuality are embodied, experienced, performed, and/or regulated, and we must also consider histories of capitalism, colonialism, migration, and globalization. Participants will read an eclectic mix of theory, history, literature, and ethnography, and watch diverse international and U.S.-based films in order to better understand and analyze genders and sexualities in different geographic, cultural, and political contexts. The course aims to promote cross-cultural learning about the gender and sexual diversity that is part of the histories and cultures of people who immigrate or reside in the United States
Style: 35% Lecture, 30% Discussion. Films
Grading: 40% reports/papers, 20% class participation, 40% other evaluation. final paper
Exam Format: No Exam

AmSt 1905 Freshman Seminar: Pursuit of Fairness: History of Affirmative Action
3 credit(s);
Instructor: Pierce, Jennifer L
Description: With the recent Supreme Court decision, Fischer v. the University of Texas, debates about affirmative action have again seized national attention. What is affirmative action? Is this social policy a fair one? This seminar focuses on the emergence of affirmative action as a policy and its varied rationales in the twentieth century United States. In contrast to popular belief, affirmative action as a policy did not emerge full-blown in the 1970s, its origins can be traced to the 1930s and President Franklin Delano Roosevelt’s New Deal policy agenda. We follow the trajectory of these early policy formations through WWII to the influential Brown v. Board of Education decision which ruled the “separate but equal” doctrine in public facilities unconstitutional. Next, we move to our post-civil rights era (1965 to the present) and examine the varied meanings and debates about affirmative action in news media accounts, the law, and in academic research. In addition, we consider how stories about affirmative action circulate within American popular culture such as Hollywood films. Finally we consider the future of this controversial social policy.

Style: 50% Lecture, 25% Film/Video, 25% Discussion.

AmSt 2011 The United States since September 11
3 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Historical Perspectives
Instructor: Karjanen, David J
Description: The attacks on the World Trade Center and the Pentagon on September 11th are events which suspended the normal workings of the country economically, politically, and culturally. This course explores the historical context of 9/11, situating the attacks in US military, diplomatic, and geopolitical histories. We will explore questions such as how 9/11 is similar or different from other attacks on the United States or US interests, what the historical relationship of terror to U.S. foreign policy, and how different countries have viewed the events. The cultural importance of political events since September 11th will be examined through an historical understanding of past conflicts, particularly how wars have shaped the nation’s understanding of itself, its enemies, and its place in the world. The class will also look how 9/11 has been remembered and how the politics of memory shape notions of citizenship and nationhood. We will examine responses to 9/11 and its aftermath in art, literature, and film, which will also serve as a unique introduction to the interdisciplinary methods characteristic of American Studies scholarship.

Style: 50% Lecture, 50% Discussion.
Grading: 35% mid exam, 35% final exam, 30% reports/papers.

AmSt 3113W America’s Diverse Cultures
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Writing Intensive
Instructor: Child, Brenda J
Description: The Twin Cities are global cities in an international state! Minnesota, contrary to the stereotypes, has always been a racially and culturally diverse state. This course will examine what diversity and pluralism mean and how they work in the United States by focusing on Minnesota. How did the cultural groups who contributed to the making of Minnesota influence the development of ideas, laws, and movements in the state and beyond? As we focus on Minnesota as a site of cultural diversity, we will address the following questions: Who are the people indigenous to Minnesota and what did they experience with the founding of the state? How and why did specific groups of people travel and move to Minnesota? How have global politics, the economy, and work, influenced decisions to choose Minnesota? How have groups built community in Minnesota? What artistic, literary, and other contributions have they made to Minnesota life? We will apply these questions to Native peoples, early immigrants from Europe, and recent immigrants and refugees. Students will read historical accounts, memoirs, novels and view films and art.

Style: 50% Lecture, 25% Discussion. Film or Speaker
Grading: 25% final exam, 50% reports/papers, 25% class participation.
Exam Format: essay, short answer

AmSt 3114 America in International Perspective
3 credit(s); Meets CLE req of Diversity and Soc Justice US
Instructor: STAFF
Description: The nature of international cultural exchange. The impact of U.S. cultures and society on other countries of the world as well as the impact of other cultures and societies on the United States. Recent topics have included: America in Foreign Media, U.S. - Mexico Border Cultures. Class time, workload, grading and exam format are determined by instructors. The focus of each instructor varies with the instructor’s expertise.

Style: To be determined by instructor
Grading: To be determined by instructor

AmSt 3252W American Popular Culture and Politics: 1900 to 1940
4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Historical Perspectives; meets CLE req of
Writing Intensive
Instructor: McNally, Andrew John
Description: Student may contact the instructor or department for information.

AmSt 3253W American Popular Culture and Politics: 1940 to the Present
4 credit(s); Meets CLE req of Civic Life and Ethics; meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: STAFF
Description: In this course, we will examine how the United States changed since World War II as a result of domestic and international struggles, exploring the role popular culture played in this transformation. During these years the nation became an international power, altering the ways in which Americans understood their place in the world. A new consumer culture and domestic ideal became linked to American identity and Cold War politics. Within the U.S., challenges to the mainstream took the form of a new counter culture, the assertion of black citizenship, and the rise of feminism, each demanding participation in public life and a redefinition of the hierarchies of the past. In this course, we will look at the ways in which these conflicts at home and abroad have changed the ways Americans think about themselves as citizens and the place of our nation in the world.
Style: To be announced
Grading: Will be determined by to be announced instructor

AmSt 3993 Directed Studies
1-9 credit(s), max credits 9, 1 completion allowed;
Instructor: STAFF
Description: Arrangements must be made with the professor who oversees the project.

AmSt 4101 Gender, Sexuality, and Politics in America
3 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Historical Perspectives
Instructor: STAFF
Description: Ways public and private life intersect through the issues of gender, sexuality, family, politics, and public life; ways in which racial, ethnic, and class divisions have been manifest in the political ideologies affecting private life. Class time, workload, grading and exam format are determined by instructors. The focus of each instructor varies with the instructor's expertise.
Style: Will be determined by course instructor
Grading: Will be determined by instructor

AmSt 4961 Proseminar I
3 credit(s);
Instructor: Karjanen, David J
Description: Student may contact the instructor or department for information.

AmSt 8201 Historical Foundations of American Studies
3 credit(s);
Instructor: Prell, Riv-Ellen
Description: Student may contact the instructor or department for information.

AmSt 8801 Dissertation Seminar
S-N only, 3 credit(s);
Instructor: Child, Brenda J
Description: Student may contact the instructor or department for information.

AmSt 8920 Topics in American Studies: Public History: Guantanamo Public Memory Project
3-4 credit(s), max credits 12, 3 completions allowed;
Instructor: Murphy, Kevin P.
Description: Student may contact the instructor or department for information.

AmSt 8920 Topics in American Studies: New Directions in US Based Queer Studies
3 credit(s), max credits 12, 3 completions allowed;
Instructor: Fajardo, Kale Bantigue
Description: In the last decade, queer studies has seen an explosion of dynamic critical works, ranging from Jasbir Puar's Terrorist Assemblage (2007), Jack Halberstam's The Queer Art of Failure (2011), Sara Ahmed's Queer Phenomenology (2006), Mark Rifkin's When Did Indians Become Straight?: Kinship, the History of Sexuality, and Native Sovereignty (2011), and Brenna Munro's South Africa and the Dream of Love to Come (2011), just to name a
few. This seminar prioritizes recently published US-based and international queer studies scholarship, which are vigilant to the fact that sexuality is intersectional, not extraneous to other modes of difference. We'll explore what queer studies has to say (or not) about such complex issues such as indigeneity, race, poverty, neo/postcolonialism, war, apartheid, neoliberal capitalism, tourism, urbanization, migration/immigration, citizenship, space/place/temporality, and knowledge/power. Since the seminar addresses both US and international queer studies texts, the seminar also strives to develop comparative, postcolonial/decolonized, and transnational reading practices and analyses among seminar participants.

AmSt 8970 Independent Study in American Studies
1-9 credit(s), max credits 9, 9 completions allowed;
Instructor: Pierce, Jennifer L
Description: Student may contact the instructor or department for information.

Anatomy 6-125 Jackson Hall

ANAT 3001 Human Anatomy
3 credit(s); [BIOL 1002W or BIOL 1009 or BIOL 2002 or equiv], at least soph credit will not be granted if credit received for: Anat 3001/Anat 3301/Anat 3601/INMD 3001/INMD 3301 Credit will not be granted if credit has been received for: ANAT 3611;
Instructor: Barnett, Vincent A
Description: Student may contact the instructor or department for information.

ANAT 4900 Directed Studies in Anatomy
S-N only, 1-6 credit(s), max credits 18, 3 completions allowed;
Instructor: Weinhaus PhD, Anthony James
Description: Student may contact the instructor or department for information.

ANAT 5095 Advanced Problems in Anatomy
A-F only, 1-6 credit(s), max credits 12;
Instructor: Weinhaus PhD, Anthony James
Description: Student may contact the instructor or department for information.

ANAT 5095 Advanced Problems in Anatomy
A-F only, 1-6 credit(s), max credits 12;
Instructor: Cook, Mark S.
Description: Student may contact the instructor or department for information.

ANAT 5150 Human Gross Anatomy
A-F only, 5 credit(s);
Instructor: Weinhaus PhD, Anthony James
Description: Student may contact the instructor or department for information.

ANAT 6050 Dental Gross Anatomy
A-F only, 5 credit(s);
Instructor: Cook, Mark S.
Description: Student may contact the instructor or department for information.

Anesthesiology B-515 Mayo

Anes 8269 Research in Anesthesia
1 credit(s);
Instructor: Palahniuk, Richard John
Description: Student may contact the instructor or department for information.

Animal Science 305 Haecker Hall

AnSc 1001 Orientation to Animal Science
A-F only, 1 credit(s);
Instructor: Rozeboom, Gretchen Diane
**Description:** Animal Science Orientation is designed to promote positive academic and social relationships with faculty and other new students both in and out of the classroom. During the course of the semester, students will be introduced to a variety of services and opportunities found at the University of Minnesota. You will have opportunities to learn more about yourself and your motivations for working in the field of animal science and its related areas. Additionally, you will hear from professionals who are actively involved in various aspects of the animal science industry and the veterinary profession in order to find out more about career opportunities. This class is primarily designed for freshman students and transfers new to the University of Minnesota.

**Style:** 15% Lecture, 20% Discussion, 10% Small Group Activities, 5% Field Trips, 50% Guest Speakers. A required, off campus field trip will likely be held on a Saturday in September.

**Grading:** Class is only offered as letter graded.

**Exam Format:** Quizzes are short answer, True or False or Multiple Choice

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**AnSc 1011 Animals and Society**
- **3 credit(s);** Meets CLE req of Civic Life and Ethics
- **Instructor:** Seykora, Anthony James
- **Description:** This course addresses contemporary issues that are impacting animal agriculture. Major issues include the safety, nutritional value and health related issues of animal products in the human diet; animal behavior, welfare, and rights; organic vs. conventionally produced food; genetically enhanced foods; and the changing, industrialized structure of the livestock industry. The main focus is on livestock species, but care, management, and welfare of companion animals and wildlife are also a part of the course. Guest speakers from the livestock/food industries and animal welfare groups are an integral part of the course.
- **Style:** 70% Lecture, 30% Discussion.
- **Grading:** 40% mid exam, 20% final exam, 40% reports/papers.
- **Exam Format:** Short answer/true and false/multiple choice

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**AnSc 1511 Food Animal Products for Consumers**
- **3 credit(s);**
- **Instructor:** Rozeboom, Kyle James
- **Description:** Introduction to the compositional variation, processing, selection, storage, cookery, palatability, nutritional value, and safety of red meat, poultry, fish, and dairy products.

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**AnSc 1701 Historical Influence of the Horse on Society**
- **3 credit(s);** Meets CLE req of Historical Perspectives
- **Instructor:** Hathaway, Marcia
- **Description:** Student may contact the instructor or department for information.

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**AnSc 2011 Dairy Cattle Judging**
- **2 credit(s);**
- **Instructor:** Hansen, Leslie Bennett
- **Description:** Evaluation of dairy cows and heifers on the basis of physical appearance. Training in oral justifications of placings of classes of animals. Field trips to many dairy farms in Minnesota, Iowa, and Wisconsin to evaluate dairy animals. Most students enrolling in this course have interest in participating in the Intercollegiate Dairy Cattle Judging Teams program. No previous dairy cattle judging experience is required, but is highly recommended.
- **Style:** 100% Laboratory. Placings of classes and oral justification of placings.
- **Grading:** 100% other evaluation. Placings of classes and oral justification of placings.
- **Exam Format:** None

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**AnSc 2013 Beginning Livestock Judging**
- **2 credit(s);**
- **Instructor:** Rozeboom, Kyle James
- **Description:** Visual evaluation of beef cattle, swine, and sheep for type, muscling, degree of finish, structure, and soundness. Short oral presentations. Preparation for collegiate livestock judging competition.

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**AnSc 2055 Horse Management**
- **2 credit(s);**
- **Instructor:** Martinson, Krishona Lynn
- **Description:** This course is designed to develop theoretical knowledge and practical skills related to horse management and health through a combination of lecture, class discussion, group projects and presentations. Best management practices are discussed and include breeds and uses, behavior, vaccinations, deworming, lameness, poisonous plants, forage management, liability, and facility management. Current topics affecting the horse industry and equine career options are also discussed.
AnSc 2056 Horse Management Practicum
2 credit(s);
Instructor: Martinson, Krishona Lynn
Description: This course is designed to develop practical skills related to horse management through hands-on exercises, diverse topics and presenters, exposure to research methodology, community service, and group presentations. Students will be responsible for care of horses throughout the semester. Daily chores (including weekends and holidays) will include grooming, hoof picking, feeding, cleaning of waterers, manure removal, barn sweeping, lunging and/or hand walking. The time commitment to complete these tasks will take place outside of the scheduled course time and will require an additional two hours each week. Students will also be expected to complete a work/volunteer day at a local non-profit and will be responsible for conducting an applied research project during the semester. Students will prepare two group presentations, one on careers in the equine industry and the other on the results of the research project. The course will closely follow ANSC 2055: Horse Management, but is offered as an independent course for students currently enrolled in, or who have previously completed, ANSC 2055 Horse Management.

AnSc 2401 Animal Nutrition
3 credit(s);
Instructor: Raeth-Knight, Mary Louise
Description: Introduction to the principles of animal nutrition discussed on a comparative species basis including classification and function of the various nutrients (carbohydrates, protein, lipids, minerals and vitamins); use of nutrients for body maintenance, growth, egg production, gestation, and lactation; comparative study of the digestive systems of farm animal species; nutrient requirements and allowances for farm animals. The course is targeted for undergraduates seeking an understanding of how feedstuffs are combined to meet the nutrient needs of animals and appreciate the practical application of nutrition to farm animals species.
Style: 100% Lecture.
Grading: 100% other evaluation. 5 EXAMS, WITH EACH EXAM WORTH 20% OF THE GRADE.

AnSc 3011 Statistics for Animal Science
4 credit(s); Credit will not be granted if credit has been received for: STAT 3011;
Instructor: Raeth-Knight, Mary Louise
Description: The purpose of this course is to introduce students to statistics and statistical techniques and to develop students' statistical reasoning and critical thinking skills. Topics include descriptive statistics, probability, sampling and sampling distributions, hypothesis testing, experimental design, linear correlation, linear regression and multiple linear regression. Students will learn how to make sound arguments and decisions based on statistics when reviewing news articles or scientific publications with statistical content. In addition, in lab sessions, students will learn how to explore and draw conclusions from data using a basic statistical software package.

AnSc 3221 Animal Breeding
4 credit(s);
Instructor: Seykora, Anthony James
Description: This course is the application of qualitative and quantitative genetic principals to animal breeding. Topics include Mendelian genetics, computation of genetic values from an individual's own performance and relatives, selection indexes, inbreeding and relationships, crossbreeding and development of a breeding program. The laboratory portion of the course is held in the computer lab. Computer simulation programs enhance the learning experience of the students.
Style: 60% Lecture, 15% Discussion, 25% Laboratory.
Grading: 30% mid exam, 15% final exam, 15% special projects, 15% quizzes, 25% problem solving.
Exam Format: true-false, multiple choice, problem solving

AnSc 3301 Human and Animal Physiology
3 credit(s);
Instructor: Wheaton, Jonathan E
Description: This is an immediate level course intended for upper division undergraduate students. The course covers functions of major organ systems: the nervous system, muscles, cardiovascular, respiration, renal, metabolism and endocrinology.
Style: 100% Lecture.
Grading: 89% mid exam, 11% quizzes.
Exam Format: One essay-type exam, others are multiple choice

AnSc 3302 Human and Animal Physiology Laboratory
1 credit(s);
Instructor: Palmer PhD, Melissa L
Description: Student may contact the instructor or department for information.

AnSc 3305 Reproductive Biology in Health and Disease
4 credit(s);
Instructor: Mauro PhD, Laura J.
Description: This course is intended to provide students with an understanding of the basic principles of reproductive physiology emphasizing mammalian species. An introduction to the “chemical messengers” of reproduction—their synthesis, mechanism of action and regulation—will provide a foundation for a detailed study of topics, such as sexual differentiation, the functioning of the female and male reproductive systems, the physiology of pregnancy and birth, and reproductive senescence. These topics will be expanded to incorporate unique aspects of reproduction in domestic and wild animals and humans, along with relevant examples of the pathophysiology of reproductive diseases. The students will also be introduced to the current science and issues of applied reproductive biotechnologies. This course is targeted for undergraduate majors, pre-professionals and non-majors who want a better understanding of the basic and applied concepts of reproduction in animals and humans.
Style: 75% Lecture, 10% Discussion, 15% Laboratory.
Exam Format: Combination of short answer and multiple choice

AnSc 3307 Artificial Insemination Techniques
S-N only, 1 credit(s);
Instructor: Seykora, Anthony James
Description: Hands-on training and techniques of artificial insemination in cattle at an off-campus laboratory setting. Proper techniques of AI and semen handling, and criteria for selection of bulls.

AnSc 3403 Companion Animal Hot Button Issues
3 credit(s);
Instructor: Stern, Marshall D
Description: There are various circumstances where people differ in their opinions of how companion animals should be treated, type of care they should receive, and what type of animal can or should be kept as companions. There are many hot button issues that are debated among people, in the media, in the courts at both the federal level and in local communities. Students taking this course will become aware and familiar with various issues that affect Companion Animals in our society. Students will debate the pros and cons of each issue and formalize their own opinions based on information presented by debate teams.
Style: 25% Discussion, 50% Small Group Activities, 25% Student Presentation.
Grading: % of overall grade: Oral presentation and contribution in debate - 25%; Written statement on stance taken in the debate- 25%; Weekly one page responses to debates and participation- 50%

AnSc 3509 Animal Biotechnology
3 credit(s);
Instructor: Palmer PhD, Melissa L
Description: Student may contact the instructor or department for information.

AnSc 3609 Business Planning for Animal Enterprises
2 credit(s);
Instructor: Reneau, Jeffrey Kimball
Description: The purpose of the class is to introduce the non-specie components of animal production systems (Information management, operation and personnel management, finances and marketing, nutrient cycling and manure management). In addition, the economic and global forces acting on the animal industries today, including animal well being, will be discussed. AgPlan, a web based farm business planning software, will be used as a template for the course.
Grading: 65% special projects, 25% attendance, 10% other evaluation.
AnSc 4009W Undergraduate Senior Thesis: Science in Agriculture
A-F only, 1-6 credit(s), max credits 12, 12 completions allowed; Meets CLE req of Writing Intensive
Instructor: STAFF
Description: Student may contact the instructor or department for information.

AnSc 4092 Special Problems in Animal Science
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Seykora, Anthony James
Description: Independent study in an area of animal science, under supervision of faculty member.

AnSc 4092 Special Problems in Animal Science
1-4 credit(s), max credits 4, 1 completion allowed;
Instructor: Cox, Ryan Bradley
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Hansen, Leslie Bennett
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Seykora, Anthony James
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Noll PhD, Sally
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Shurson, Gerald C
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Mauro PhD, Laura J.
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Hathaway, Marcia
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Rozeboom, Kyle James
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Raeth-Knight, Mary Louise
Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
S-N only, 1-3 credit(s), max credits 6;
Instructor: Stern, Marshall D
Description: Student may contact the instructor or department for information.
AnSc 4096 Professional Experience Program: Internship
   S-N only, 1-3 credit(s), max credits 6;
   Instructor: Dayton, William R
   Description: Student may contact the instructor or department for information.

AnSc 4096 Professional Experience Program: Internship
   S-N only, 1-3 credit(s), max credits 6;
   Instructor: Wheaton, Jonathan E
   Description: Student may contact the instructor or department for information.

AnSc 4099 Special Workshop in Animal Science
   1-4 credit(s), max credits 24, 6 completions allowed;
   Instructor: Seykora, Anthony James
   Description: Student may contact the instructor or department for information.

AnSc 4099 Special Workshop in Animal Science
   1-4 credit(s), max credits 24, 6 completions allowed;
   Instructor: Seykora, Anthony James
   Description: Student may contact the instructor or department for information.

AnSc 4099 Special Workshop in Animal Science
   1-4 credit(s), max credits 24, 6 completions allowed;
   Instructor: DiCostanzo, Alfredo
   Description: Student may contact the instructor or department for information.

AnSc 4401 Swine Nutrition
   3 credit(s);
   Instructor: Shurson, Gerald C
   Description: This course involves lectures, discussions and problem solving focused on key nutrition and feeding program management concepts related to developing and evaluating life cycle feeding programs for swine. Diet formulation and evaluation along with estimating nutrient requirements in each stage of production using computer software are key activities of the course. Both undergraduate and graduate students, with some previous coursework in nutrition, who want a comprehensive understanding of all the major considerations of providing optimum cost effective nutrition to swine in all phases of production, are encouraged to take this course.
   Style: 50% Lecture, 25% Discussion, 25% Laboratory.
   Grading: 5% reports/papers, 30% problem solving, 65% other evaluation. exams
   Exam Format: essay, multiple choice, matching, short answer, true/false, problem solving

AnSc 4404 Applied Dairy Nutrition
   2 credit(s);
   Instructor: Raeth-Knight, Mary Louise
   Description: Student may contact the instructor or department for information.

AnSc 4601 Pork Production Systems Management
   4 credit(s);
   Instructor: Rozeboom, Kyle James
   Description: Student may contact the instructor or department for information.

AnSc 4601 Pork Production Systems Management
   4 credit(s);
   Instructor: Rozeboom, Kyle James
   Description: Student may contact the instructor or department for information.

AnSc 4603 Beef Production Systems Management
   4 credit(s);
   Instructor: DiCostanzo, Alfredo
   Description: Student may contact the instructor or department for information.

AnSc 4613 Advanced Beef Production Systems Management
   2 credit(s);
Instructor: DiCostanzo, Alfredo  
Description: Student may contact the instructor or department for information.

AnSc 5625 Nutritional Biochemistry  
3 credit(s);  
Instructor: Chen, Chi  
Description: Please see NUTR5625

AnSc 5700 Cell Physiology  
A-F only, 4 credit(s);  
Instructor: Palmer PhD, Melissa L  
Description: Student may contact the instructor or department for information.

AnSc 8134 Ethical Conduct of Animal Research  
A-F only, 3 credit(s); Grad student or prof school student or instr consent  
Instructor: Crooker, Brian A  
Description: The major objectives for this course are designed to meet federal requirements for training in ethical scientific conduct, particularly as it pertains to use of animal subjects. This course provides 1) a framework for understanding the ethical pros and cons for the use of nonhuman animals in research; 2) information about resources and regulations regarding the care and use of nonhuman animals; 3) theoretical bases and practical experiences with regard to the purpose and function of regulatory and oversight bodies; and 4) awareness of issues related to biomedical, clinical, and agricultural research.

AnSc 8194 Research in Animal Genetics  
1-3 credit(s), max credits 3, 1 completion allowed;  
Instructor: Hansen, Leslie Bennett  
Description: Student may contact the instructor or department for information.

AnSc 8311 Animal Bioenergetics  
A-F only, 3 credit(s);  
Instructor: DiCostanzo, Alfredo  
Description: Integrated systems approach to energy metabolism of animals. Application of classical techniques of calorimetry and comparative slaughter, development of systems for expressing energy content of feeds, and techniques for measuring whole body and organ metabolism of specific nutrients.

AnSc 8312 Protein Metabolism  
A-F only, 3 credit(s);  
Instructor: DiCostanzo, Alfredo  
Description: Student may contact the instructor or department for information.

AnSc 8330 Concepts and Developments in Animal Nutrition  
A-F only, 1-2 credit(s), max credits 8, 4 completions allowed;  
Instructor: Stern, Marshall D  
Description: Student may contact the instructor or department for information.

AnSc 8510 Graduate Seminar  
1 credit(s), max credits 12, 12 completions allowed;  
Instructor: Dayton, William R  
Description: Student may contact the instructor or department for information.

Anthropology 395 HHHCrt

Anth 1001 Human Evolution  
4 credit(s); Meets CLE req of Biological Sciences  
Instructor: Garrett, Niki  
Description: Student may contact the instructor or department for information.

Anth 1001 Human Evolution  
4 credit(s); Meets CLE req of Biological Sciences
Instructor: Tostevin, Gilbert B
Description: Humans are unique in the animal world. In this class, we will take a journey through time to examine the evolution of humans, and how natural selection also shapes our own anatomy and behavior. Our goal is to reconstruct the evolutionary history of our lineage, and the anatomy and behavior of our ancestors. The first half of the course is based firmly in the present, and will give you a strong background in evolutionary theory: Natural Selection, basic genetics, principles of behavioral biology and the comparative anatomy of living organisms (primarily monkeys and apes). In the second half of the course we will reconstruct the ecology, diet, anatomy, locomotion, and even the social behavior of the hominids (human ancestors) using the evolutionary principles learned in the first half of the course. Among the "big questions in human evolution" that we will address are: What were the earliest hominins, the australopiths, like? How did climate change affect macro- and micro-evolutionary patterns? How does tool use and culture feed back upon our bodies? How far back in time does modern human behavior date, and what is the evidence for it? When and where did our species, Homo sapiens, in its modern form, originate? While learning the most up-to-date synthesis of paleoanthropology’s answers to these questions, students in this course will also learn first-hand how to apply the analytical methods used by paleoanthropologists.

Style: 50% Lecture, 50% Laboratory.
Grading: 35% mid exam, 20% final exam, 35% laboratory evaluation, 10% other evaluation. in-class active-learning assignments
Exam Format: multiple choice

Anth 1003V Understanding Cultures: Honors
A-F only, 4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 1003W Understanding Cultures
4 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: STAFF
Description: Introduction to social and cultural anthropology for undergraduate majors and non-majors. Comparative study of societies and cultures around the world. Topics include adaptive strategies; economic processes; kinship, marriage and gender, social stratification; politics and conflict; religion and ritual; personality and culture. We will survey a variety of human cultures and explore theories about the evolution, function and meaning of culture.
Style: 75% Lecture, 25% Discussion.
Exam Format: multiple choice; essay

Anth 1906W Freshman Seminar: Changing Human Adaptations
A-F only, 3 credit(s); Meets CLE req of Environment; meets CLE req of Writing Intensive
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 3001 Introduction to Archaeology
4 credit(s); Meets CLE req of Social Sciences
Instructor: Monnier, Gilliane F
Description: Archaeology is the study of humans in the past. As such, it encompasses a very broad time span, from early humans in Africa several million years ago, to European settlers in North America 100 years ago. Geographically, it encompasses the entire planet, from the prehistoric Inuit of Alaska to the settlement of Polynesia. Conceptually, archaeology seeks to answer fundamental questions, such as ?When did humans first become dependent on fire??, ?What factors led to the development of agriculture?? or ?How can we explain the rise and fall of early civilizations?? The study of each of these big questions relies on answering many small questions that are asked in the context of excavations and other archaeological analyses. What underlies all of this diversity is a common theme: archaeology is the study of people in the past, and it differs from History in that it is based upon the study of material remains. The aim of this class is to provide an understanding of the methods and techniques used by archaeologists in investigating these questions. It includes not only hands-on learning of specific analytical techniques, such as faunal and lithic analysis, site survey and excavation strategy, but also focuses on the theoretical approaches that guide the questions we ask and the methods we apply to answer them. This class, therefore, prepares students for more advanced classes in the discipline. However, it also leads to a new way of thinking. This way of thinking is primarily critical and analytical. It leads the practitioner to think about how data is interpreted, and how theoretical frameworks as well as innate biases color these interpretations. Seeking solutions to interpretive problems requires the creative application of multidisciplinary approaches. Therefore the study of archaeology leads to a new way of thinking about and doing science.
Style: 40% Lecture, 50% Laboratory, 10% Guest Speakers.
Grading: 40% mid exam, 30% final exam. 30% Lab Grade
Anth 3001 Introduction to Archaeology
4 credit(s); Meets CLE req of Social Sciences
Instructor: Allard, Amelie
Description: Student may contact the instructor or department for information.

Anth 3003 Cultural Anthropology
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3003;
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 3004 Great Controversies in Anthropology
A-F only, 3 credit(s); Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Altun, Murat
Description: Student may contact the instructor or department for information.

Anth 3005W Language, Culture, and Power
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Carlson, Matthew John
Description: Student may contact the instructor or department for information.

Anth 3005W Language, Culture, and Power
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Valentine, David
Description: The "English Only" movement in the U.S. has been attempting for years to have English recognized as the nation's official language. On a daily basis, people with non-standard accents are asked where they come from. In New Guinea, languages which have thrived for centuries are dying out... People claim that they can "tell" if someone is gay or straight by the way they speak. While language is a universal feature of human culture, and a vital resource for humans' ability to describe and relate to the world around them, language is also deeply political in nature. Language, Culture, and Power aims to consider language as a social and political practice from an anthropological perspective which pays close attention to language in its contexts of use. The complex relationship between language, culture, and power raises important questions: how does language shape our view of the world? What relations of power are produced in language use and beliefs about language? How is language used creatively to produce social worlds? What are the politics of using one variety of language over another? What are the politics of writing, and how do debates about spoken language carry over to the written word? This course seeks to explore these and other questions from a variety of perspectives, including language and world view, the use of metaphors in everyday speech, language socialization, language shift, and language and identity. Students will be required to tape-record and transcribe a conversation to be used as the basis for sociolinguistic analysis through the semester. Above all, we will be concerned with the relationships of power that are deeply enmeshed in everyday language use, and consequently, the major themes of this class revolve around the politics of language and language ideologies.
Style: 60% Lecture, 10% Film/Video, 10% Discussion, 20% Laboratory.
Grading: 85% reports/papers, 10% class participation, 5% other evaluation. The "other evaluation" refers to your production of a transcription from a taped conversation
Exam Format: There are no in-class exams for this course

Anth 3005W Language, Culture, and Power
4 credit(s); Meets CLE req of Diversity and Soc Justice US; meets CLE req of Social Sciences; meets CLE req of Writing Intensive
Instructor: Thao, Mai See
Description: Student may contact the instructor or department for information.

Anth 3023 Culture and Society of India
3 credit(s); Credit will not be granted if credit has been received for: GLOS 3961; Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 3027W Archaeology of Prehistoric Europe
Anth 3049W Anthropology of Social Class
A–F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 3205 Introduction to Aztec, Maya, and Inka Art, from Ancient Times to the Colonial Period
3 credit(s); Credit will not be granted if credit has been received for: ARTH 3205; Meets CLE req of Arts/Humanities
Instructor: Afanador-Pujol, Angelica J
Description: Student may contact the instructor or department for information.

Anth 3401 The Human Fossil Record
A–F only, 3 credit(s); 1001 or instr consent
Credit will not be granted if credit has been received for: ANTH 5401
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 3402 Zooarchaeology Laboratory
A–F only, 3 credit(s);
Instructor: Tappen, Martha
Description: Mammal bones preserved at archaeological sites are an important source of evidence about past behaviors and environments. This class emphasizes basic laboratory techniques to identify and analyze mammalian bones to interpret the archaeological record. An important component is learning to identify skeletal elements (humerus, femur, tibia etc.), and taxon (e.g. horse, antelope, sheep, bison, hyena, etc.) when confronted with bones (and bone fragments). Skeletal adaptations and functional anatomy is another focus of the class. Determining ages of death and mortality profiles through tooth eruption and wear patterns is covered. We also cover the practical skills of recognizing and analyzing different kinds of bone modifications- tool marks, tooth marks, burning, types of bone breakage, etc. The emphasis of the course is on interpreting faunal remains from Stone Age sites. Aspects of the history of human use of animals, including the evolution of hunting techniques, cooking, redistribution and sharing practices and how these are manifest in the zooarchaeological record are discussed. The emphasis will be on scientific methodologies, including microscopy, data collection and management, and measurement. You must be able to spend several hours a week in the laboratory working on your own each week.
Style: 25% Lecture, 50% Laboratory, 10% Student Presentation.

Anth 3601 Archaeology and Native Americans
3 credit(s); Credit will not be granted if credit has been received for: ANTH 5601; Meets CLE req of Diversity and Soc Justice US
Instructor: Hayes, Katherine F H
Description: American archaeologists and Native Americans have long had a difficult and conflicted relationship. Archaeology and anthropology, as disciplines, have their roots in colonial practices: establishing control through naming, defining, and categorizing Native cultures, framing them within the epistemology of Western scientific practice. To do so, however, archaeologists have, from a Native perspective, desecrated sacred grounds and robbed Native communities of their past. A Western scientific framework has often presumed objectivity and value-free construction of knowledge; but today we acknowledge that scientific practice is always undertaken within a social and political environment, that impacts the interpretations scientists make. Indigenous archaeology is an approach with increasing acceptance, which recognizes multiple historical epistemologies, and places the archaeologist’s voice as one among many in producing historical knowledge. How is history constructed differently through these frameworks? What is the impact for contemporary Native communities? And what is at stake if we reshape archaeological practice in this way? In this course we will consider examples of archaeological investigations which take Native American cultures as their objective focus; the foundations of a scientific epistemology and philosophy which underwrite that focus; the reaction and resistance of Native communities to this kind of archaeology, and the epistemological differences informing their positions; and examples of how archaeology might integrate both Native and scientific epistemological stances, for a more ethically equitable approach to the past. The course will consist of both lecture and open discussion of the cases.
These are politically contentious issues, and the goal of this course is to (a) foster an open dialogue, and (b) introduce students to scholarly and literary resources which bring opposing viewpoints into conversation with one another.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Wells, Peter S  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Raheja, Gloria Goodwin  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Gudeman, Stephen Frederick  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Tappen, Martha  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Lipset, David M  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Langford, Jean M  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Taussig, Karen-Sue  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Tostevin, Gilbert B  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Wilson, Michael Lawrence  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Monnier, Gilliane F  
**Description:** Student may contact the instructor or department for information.

**Anth 3913 Senior Project Planning**  
A-F only, 1 credit(s);  
Instructor: Ho, Karen  
**Description:** Student may contact the instructor or department for information.
Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 3913 Senior Project Planning
A-F only, 1 credit(s);
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.

Anth 3980 Topics in Anthropology: American Indians and Photography
3 credit(s), max credits 6;
Instructor: Albers, Patricia
Description: This course intends to provide students with a broad understanding of American Indian women across different tribal nations and over time. Although the particular expression of and expectations for their life accomplishments varies from one tribal nation to another, women contributed in important ways to provisioning, protecting, and promoting the spiritual, cultural and material well-being of their people. The course is divided into four sections, each representing a distinct focus in the study of American Indian women. The first section is concerned with representation and interpretation, or how American Indian women have been perceived in myth, literature, popular culture, and scholarly discourse. The second section studies the many ways women fed and housed their families in the past, and how they continually adapted these roles to meet the changing conditions of the present. The third section looks at the important role kinship plays in women's lives, and it considers how work and kinship help to define a woman's standing in her community. In doing so, the course documents the manners in which women supported and changed the destinies of their nations in diplomacy and war. And the final section covers women's efforts to preserve the cultural integrity of their languages, artistic traditions, and spiritual beliefs.

Anth 4001 Advanced Method and Theory in Archaeology: Cultural Transmission and Archaeology
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 4003W Contemporary Perspectives in Cultural Anthropology
A-F only, 3 credit(s); Meets CLE req of Writing Intensive
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.
Anth 4013 Senior Project
3 credit(s);
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.
Anth 4013 Senior Project
3 credit(s);
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 4013 Senior Project
3 credit(s);
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.
Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anthr 4013H Senior Honors Thesis Project
A-F only, 3 credit(s);
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.
Anth 4035 Ethnographic Research Methods
3 credit(s);
Instructor: Ho,Karen
Description: The practice of ethnography is central to anthropology as well as the social sciences more broadly. Ethnographic fieldwork, from participant observation to interviewing to mapping social relations, generates the data through which we learn about our social world. Ethnography is the ground on which anthropology stands, for anthropologists make broad theoretical claims about our universe through detailed ethnography. As such, this class will focus on the intellectual, methodological and political journey that ethnographers face in the new millennium. In the past several decades, anthropologists have raised serious questions and challenges to the very foundations of what constitutes ethnographic fieldwork. How have the processes of globalization, transnationalism, postcoloniality, and the rise of virtual "online" communities changed our notions of "the field" and the singular field site? What are the dialectics and complex negotiations of self and other given the challenges of "native" anthropologists and the discipline's heightened attention to inequality? How have anthropological ethics and reflexivity changed over time, and how have interdisciplinary engagements with critical theories of feminism, race, and power reframed the very questions we ask, and the way we address them? How have anthropologists innovated new ethnographic approaches that demonstrate the continued importance of the anthropological toolkit?
Style: 30% Lecture, 40% Discussion. Ethnographic Field Project
Grading: 50% reports/papers, 25% special projects, 10% in-class presentation, 15% class participation.

Anth 4047 Anthropology of American Culture
3 credit(s);Meets CLE req of Social Sciences
Instructor: Ho,Karen
Description: This course will explore American cultures and values through an examination of race/ethnic, gender, and class relations, and cultural politics in the 21st century. We will focus on the transnational and heterogeneous histories and relationships among multiple communities such as African Americans, whites, Asian Americans, Latinos, and Native Americans. We will also focus on the workings and the changing cultural values of the U.S. by examining a variety of sites and situations such as the workplace and the economy, immigration, family, the urban environment, poverty, multiculturalism, and globalization. We will explore a variety of American identities, communities, and institutions as pivotal sites to understand the dynamics of race/ethnicity, class, gender, and sexuality. This course is interdisciplinary, as it draws from anthropology, ethnic studies, American Studies, sociology, urban and global studies, history, and film. This course is intended for undergraduate majors as well as non-majors.
Style: 30% Lecture, 70% Discussion.
Grading: 25% mid exam, 35% final exam, 15% in-class presentation, 25% class participation.

Anth 4049 Religion and Culture
3 credit(s);
Instructor: Song,Hoon
Description: This semester, the class' subtitle is 'sacredness.' The operational presupposition of the class is that sacredness is more than a mental phenomenon: it often involves objects and bodies. Modern perspectives on religion have long downplayed this 'material' aspect as they privileged iconoclastic spirituality. The anthropology of religion aims to go beyond the material/spiritual opposition; and asks how rituals employ objects and bodies in order to capture the effect we might call spiritual or mystical. Arguably, this may include political gestures such as protest suicides. Through select examples, this class explores how religious practices around the world and across time variously deployed this material/spiritual division as a resource rather than as a hierarchical opposition.

Anth 4053 Economy, Culture, and Critique
3 credit(s);Credit will not be granted if credit has been received for: ANTH 8205;Meets CLE req of Global Perspectives; meets CLE req of Social Sciences
Instructor: Dalinghaus,Ursula Monika
Description: Student may contact the instructor or department for information.

Anth 4077 Neanderthals: Biology and Culture of Humanity's Nearest Relative
3 credit(s);
Instructor: Monnier,Gilliane F
Description: Ever since the discovery of the first Neanderthal skull in Germany in 1856, debate has raged in science as in popular culture over the degree of humanity of Neanderthals, our closest prehistoric relatives. Were they shuffling, depraved cannibals, or intelligent and caring beings? Did they lack the qualities we define as uniquely human, such as language and the ability to produce art, or did they create the first symbolic objects, care for their wounded and their dead, and develop complex tool kits? In this course we will review the fossil, archaeological, and genetic evidence on the origins, adaptations, and ultimate fate of the Neanderthals. In addition, we will examine the shifting views on Neanderthals in relation to the changing intellectual and sociopolitical climate of the last 150 years. The course concludes by tackling the controversial and often emotional topic of whether Neanderthals died out due to environmental changes, or whether they were slaughtered into extinction by competing modern humans in what some
have called the "Pleistocene Holocaust."

Style: 20% Lecture, 40% Discussion, 30% Small Group Activities, 10% Student Presentation.
Grading: 30% reports/papers, 40% reflection paper, 10% in-class presentation, 10% class participation, 10% other evaluation.

Anth 4344 Europe and its Margins
A-F only, 3 credit(s); One course in ANTH or GLOSCredit will not be granted if credit has been received for: GLOS 4344;
Instructor: McLean, Stuart J
Description: This course seeks to shed light upon the constitution of the mythical, yet world-historically significant entity called "Europe" by focusing, less on present-day political boundaries than on regions and landscapes—forests, mountains, marshes, islands—that have been thought of at various times as marking Europe's inner and outer cultural and geographical limits. In charting the shifting imaginaries of such marginal spaces, it aims to engage too with the production of cultural and historical knowledge and the formation (and occasionally the subversion) of identity-claims. Readings draw upon a variety of historical, literary and ethnographic sources, with a view to exploring the interplay between physical geography, imagination and cultural memory, along with the forms of literary and scholarly writing developed in and in relation to marginal lands. The course concludes by relating these themes to the reconfigured political geography of post-socialism and European integration.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Soderberg, John A
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.
Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Monnier, Gilliane F
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Valentine, David
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Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: McLean, Stuart J
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Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Song, Hoon
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Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 4991 Independent Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.
Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4992 Directed Readings
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
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Instructor: McKay, Ramah
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Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Raheja, Gloria Goodwin
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Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
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Anth 4993 Directed Study
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Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Demerath, Peter
Description: Student may contact the instructor or department for information.

Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: McNulty, Kieran P
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Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 4993 Directed Study
1-6 credit(s), max credits 6, 1 completion allowed;
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.
Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Tostevin, Gilbert B
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Wilson, Michael Lawrence
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Ho, Karen
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.
Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Song, Hoon
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Beeman, William O
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 4994W Directed Research
1-6 credit(s), max credits 6, 1 completion allowed; Meets CLE req of Writing Intensive
Instructor: McKay, Ramah
Description: Student may contact the instructor or department for information.

Anth 5027W Archaeology of Prehistoric Europe
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3027W; Meets CLE req of Historical Perspectives; meets CLE req of Writing Intensive
Instructor: Wells, Peter S
Description: Survey of the archaeology of Europe, from the earliest evidence of human presence about one million years ago to the Roman conquest of about two thousand years ago. Major topics include the development of art in the Early Stone Age, adoption of agriculture and village life during the Neolithic, early metallurgy and long-distance trade during the Bronze Age, and formation of cities in the Iron Age.
Style: 95% Lecture, 5% Discussion.
Grading: 30% mid exam, 25% final exam, 40% reports/papers, 5% quizzes.

Anth 5401 The Human Fossil Record
A-F only, 3 credit(s); 1001 or instr consent Credit will not be granted if credit has been received for: ANTH 3401;
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 5402 Zooarchaeology Laboratory
A-F only, 3 credit(s);
Instructor: Tappen, Martha
Description: Mammal bones preserved at archaeological sites are an important source of evidence about past behaviors and environments. This class emphasizes basic laboratory techniques to identify and analyze mammalian bones to interpret the archaeological record. An important component is learning to identify skeletal elements (humerus, femur, tibia etc.), and taxon (e.g. horse, antelope, sheep, bison, hyena, etc.) when confronted with bones (and bone fragments). Skeletal adaptations and functional anatomy is another focus of the class. Determining ages of death and mortality profiles through tooth eruption and wear patterns is covered. We also cover the practical skills of recognizing and analyzing different kinds of bone modifications - tool marks, tooth marks, burning, types of bone breakage, etc. The emphasis of the course is on interpreting faunal remains from Stone Age sites. Aspects of the history of human use of animals, including the evolution of hunting techniques, cooking, redistribution and sharing practices and how these are manifest in the zooarchaeological record are discussed. The emphasis will be on scientific methodologies, including microscopy, data collection and management, and measurement. You must be able to spend several hours a week in the laboratory working on your own each week.
Style: 25% Lecture, 50% Laboratory, 10% Student Presentation.

Anth 5442 Archaeology of the British Isles
A-F only, 3 credit(s);
Anth 5601 Archaeology and Native Americans
3 credit(s); Credit will not be granted if credit has been received for: ANTH 3601;
Instructor: Hayes, Katherine F H
Description: American archaeologists and Native Americans have long had a difficult and conflicted relationship. Archaeology and anthropology, as disciplines, have their roots in colonial practices: establishing control through naming, defining, and categorizing Native cultures, framing them within the epistemology of Western scientific practice. To do so, however, archaeologists have, from a Native perspective, desecrated sacred grounds and robbed Native communities of their past. A Western scientific framework has often presumed objectivity and value-free construction of knowledge; but today we acknowledge that scientific practice is always undertaken within a social and political environment, that impacts the interpretations scientists make. Indigenous archaeology is an approach with increasing acceptance, which recognizes multiple historical epistemologies, and places the archaeologist’s voice as one among many in producing historical knowledge. How is history constructed differently through these frameworks? What is the impact for contemporary Native communities? And what is at stake if we reshape archaeological practice in this way? In this course we will consider examples of archaeological investigations which take Native American cultures as their objective focus; the foundations of a scientific epistemology and philosophy which underwrite that focus; the reaction and resistance of Native communities to this kind of archaeology, and the epistemological differences informing their positions; and examples of how archaeology might integrate both Native and scientific epistemological stances, for a more ethically equitable approach to the past. The course will consist of both lecture and open discussion of the cases. These are politically contentious issues, and the goal of this course is to (a) foster an open dialogue, and (b) introduce students to scholarly and literary resources which bring opposing viewpoints into conversation with one another.

Anth 5802 Art of the Inka and their Ancestors
3 credit(s); Credit will not be granted if credit has been received for: ARTH 5802;
Instructor: Afanador-Pujol, Angelica J
Description: Student may contact the instructor or department for information.

Anth 8001 Ethnography, Theory, History
A-F only, 3 credit(s);
Instructor: McLean, Stuart J
Description: Student may contact the instructor or department for information.

Anth 8111 Evolutionary Morphology
3 credit(s);
Instructor: McNulty, Kieran P
Description: Student may contact the instructor or department for information.

Anth 8230 Development and Management of Anthropological Research Projects
A-F only, 3 credit(s), max credits 6;
Instructor: Hayes, Katherine F H
Description: Student may contact the instructor or department for information.

Anth 8510 Topics in Archaeology: Archaeology of the British Isles
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.

Anth 8810 Topics in Sociocultural Anthropology: Language and Modernity
3 credit(s), max credits 9, 3 completions allowed;
Instructor: Valentine, David
Description: Student may contact the instructor or department for information.

Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Wells, Peter S
Description: Student may contact the instructor or department for information.
Instructor: Raheja, Gloria Goodwin
Description: Student may contact the instructor or department for information.

Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Gudeman, Stephen Frederick
Description: Student may contact the instructor or department for information.

Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Tappen, Martha
Description: Student may contact the instructor or department for information.

Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Lipset, David M
Description: Student may contact the instructor or department for information.

Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Langford, Jean M
Description: Student may contact the instructor or department for information.

Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion allowed;
Instructor: Taussig, Karen-Sue
Description: Student may contact the instructor or department for information.

Anth 8991 Independent Study
1-18 credit(s), max credits 18, 1 completion all